	Page 1	Page :
1	UNITED STATES DISTRICT COURT	1 INDEX OF EXHIBITS
	FOR THE EASTERN DISTRICT OF MISSOURI	(Continued)
2	MISSOURI STATE CONFERENCE OF)	3 PLAINTIFFS' RODDEN DEPOSITION
Ü	THE NATIONAL ASSOCIATION FOR)	4 EXHIBIT NO. DESCRIPTION PAGE NO. 5 13 Figure 8 FFSD Election 164
4	THE ADVANCEMENT OF COLORED)	Results, 2000-2015, Success
5	PEOPLE, REDDITT HUDSON, F.) WILLIS JOHNSON and DORIS)	6 Rates of Candidates of Choice 14 Facts and Data Considered in 237
J	BAILEY,)	7 Expert Report, J. Rodden, 6/15/15 15 3/12/14 St. Louis Post 238
6)	8 Dispatch article, Ferguson- Florissant Superintendent
_	Plaintiffs,)	9 Art McCoy Resigns
7	vs.) Civ. No. 14-2077	16 3/12/14 St. Louis Public Radio 238 10 Article, McCoy Resigns as
8)	Ferguson-Florissant 11 Superintendent
	FERGUSON-FLORISSANT SCHOOL)	17 1/23/14 St. Louis Public Radio 238
9	DISTRICT and ST. LOUIS)	12 Article, Contests Set for Ferguson-Florissant School
10	COUNTY BOARD OF ELECTIONS) COMMISSIONERS,)	13 Board 18 Top-ranked Candidates 259
10)	14 According to Rodden Report
11	Defendants.)	Figure 8 15 19 Supplemental Report of 272
12	DEDOCITION OF WITHEST TOWATHAN BORDEN STO	Jonathan Rodden, Bloc 16 Voting and Cohesion
13 14	DEPOSITION OF WITNESS, JONATHAN RODDEN, Ph.D., produced, sworn and examined on the 20th day of August,	20 Supplemental Report of 287 17 Jonathan Rodden, Senate Factors
15	2015, commencing at approximately 9:39 A.M. at the offices	21 2014 Montana General Election 317
16	of the American Civil Liberties Union of Eastern Missouri,	18 Voter Information Guide flyer 22 Decision, McCulloch v. 321
17	454 Whittier Street, St. Louis, Missouri, before BETH O.	19 Stanford and Dartmouth 20 DEFENDANTS'
18 19	ZINK, a Registered Professional Reporter, Missouri Certified Court Reporter, Illinois Certified Shorthand	EXHIBIT DESCRIPTION PAGE NO.
20	Reporter and Notary Public, in a certain cause now pending	21 Q Chart of election years, 336
21	in the United States District Court for the Eastern	22 Number of successful black Candidates, existing at-large
22	District of Missouri, wherein MISSOURI STATE CONFERENCE OF	23 System and Cooper Plan #2
23 24	THE NATIONAL ASSOCIATION FOR THE ADVANCEMENT OF COLORED	(Demonstrative exhibit) 24
24 25	PEOPLE, ET AL. are Plaintiffs and FERGUSON-FLORISSANT SCHOOL DISTRICT, ET AL. are Defendants.	(Exhibits attached to original and copy of transcript.) 25
	Page 2	Page
	_	
1 2	INDEX OF QUESTIONERS	1 APPEARANCES 2
3 4	EXAMINATION PAGE NO. By Mr. Ho 5	3 For the Plaintiffs: 4 AMERICAN CIVIL LIBERTIES UNION FOUNDATION
	By Ms. Ormsby 334	125 Broad Street, 18th Floor
5 6	By Mr. Ho 348	5 New York, New York 10004 By: Ms. Julie Ebenstein
7	INDEX OF EXHIBITS	6 Mr. Dale Ho (212)549-2686
8	PLAINTIFFS' RODDEN DEPOSITION	7 e-mail: jebenstein@aclu.org
9	EXHIBIT NO. DESCRIPTION PAGE NO.	dale.ho@aclu.org
10	1 Curriculum vitae of 8	The state of the s
		AMERICAN CIVIL LIBERTIES UNION
11	Jonathan Rodden, Ph.D. 2 Abstract, Quarterly Journal 27	AMERICAN CIVIL LIBERTIES UNION 9 OF EASTERN MISSOURI 454 Whittier Street
	Jonathan Rodden, Ph.D. Abstract, Quarterly Journal 27 of Political Science, 2013	9 OF EASTERN MISSOURI 454 Whittier Street 10 St. Louis, Missouri 63108
12	Jonathan Rodden, Ph.D. 2 Abstract, Quarterly Journal 27 of Political Science, 2013 Unintentional Gerrymandering: Political Geography and	9 OF EASTERN MISSOURI 454 Whittier Street 10 St. Louis, Missouri 63108 By: Mr. Anthony Rothert 11 (314)652-3114
	Jonathan Rodden, Ph.D. Abstract, Quarterly Journal 27 of Political Science, 2013 Unintentional Gerrymandering: Political Geography and Electoral Bias in Legislatures	9 OF EASTERN MISSOURI 454 Whittier Street 10 St. Louis, Missouri 63108 By: Mr. Anthony Rothert 11 (314)652-3114 e-mail: tony@aclu-em.org
12	Jonathan Rodden, Ph.D. Abstract, Quarterly Journal 27 of Political Science, 2013 Unintentional Gerrymandering: Political Geography and Electoral Bias in Legislatures Washington Post blog post 34 By J. Rodden, 8/18/2014	9 OF EASTERN MISSOURI 454 Whittier Street 10 St. Louis, Missouri 63108 By: Mr. Anthony Rothert 11 (314)652-3114 e-mail: tony@aclu-em.org 12 13
12 13 14	Jonathan Rodden, Ph.D. Abstract, Quarterly Journal 27 of Political Science, 2013 Unintentional Gerrymandering: Political Geography and Electoral Bias in Legislatures Washington Post blog post 34 By J. Rodden, 8/18/2014 5/27/15 Report of Jonathan 47	9 OF EASTERN MISSOURI 454 Whittler Street 10 St. Louis, Missouri 63108 By: Mr. Anthony Rothert 11 (314)652-3114 e-mail: tony@aclu-em.org
12 13 14 15	Jonathan Rodden, Ph.D. Abstract, Quarterly Journal 27 of Political Science, 2013 Unintentional Gerrymandering: Political Geography and Electoral Bias in Legislatures Washington Post blog post 34 By J. Rodden, 8/18/2014 5/27/15 Report of Jonathan 47 Rodden, Ph.D. Table 4b. Reported Voting and 67	9 OF EASTERN MISSOURI 454 Whittier Street 10 St. Louis, Missouri 63108 By: Mr. Anthony Rothert 11 (314)652-3114 e-mail: tony@aclu-em.org 12 13 For the Defendants: 14 CROTZER & ORMSBY
12 13 14	Jonathan Rodden, Ph.D. Abstract, Quarterly Journal 27 of Political Science, 2013 Unintentional Gerrymandering: Political Geography and Electoral Bias in Legislatures Washington Post blog post 34 By J. Rodden, 8/18/2014 5/27/15 Report of Jonathan 47 Rodden, Ph.D. Table 4b. Reported Voting and 67 Registration by sex, race and	9 OF EASTERN MISSOURI 454 Whittier Street 10 St. Louis, Missouri 63108 By: Mr. Anthony Rothert 11 (314)652-3114 e-mail: tony@aclu-em.org 12 13 For the Defendants: 14 CROTZER & ORMSBY 15 130 South Bemiston Avenue, Suite 602 St. Louis, Missouri 63105
12 13 14 15	Jonathan Rodden, Ph.D. Abstract, Quarterly Journal 27 of Political Science, 2013 Unintentional Gerrymandering: Political Geography and Electoral Bias in Legislatures Washington Post blog post 34 By J. Rodden, 8/18/2014 5/27/15 Report of Jonathan 47 Rodden, Ph.D. Table 4b. Reported Voting and 67 Registration by sex, race and Hispanic origin for states, November 2014	9 OF EASTERN MISSOURI 454 Whittier Street 10 St. Louis, Missouri 63108 By: Mr. Anthony Rothert 11 (314)652-3114 e-mail: tony@aclu-em.org 12 13 For the Defendants: 14 CROTZER & ORMSBY 15 130 South Bemiston Avenue, Suite 602 St. Louis, Missouri 63105 16 By: Ms. Cindy Ormsby
12 13 14 15 16	Jonathan Rodden, Ph.D. Abstract, Quarterly Journal 27 of Political Science, 2013 Unintentional Gerrymandering: Political Geography and Electoral Bias in Legislatures Washington Post blog post 34 By J. Rodden, 8/18/2014 5/27/15 Report of Jonathan 47 Rodden, Ph.D. Table 4b. Reported Voting and 67 Registration by sex, race and Hispanic origin for states, November 2014 Turnout rates, 2000-2015 81	9 OF EASTERN MISSOURI 454 Whittier Street 10 St. Louis, Missouri 63108 By: Mr. Anthony Rothert 11 (314)652-3114 e-mail: tony@aclu-em.org 12 13 For the Defendants: 14 CROTZER & ORMSBY 15 130 South Bemiston Avenue, Suite 602 St. Louis, Missouri 63105 16 By: Ms. Cindy Ormsby Ms. Angela Bullock Gabel 17 (314)726-3040
12 13 14 15 16 17	Jonathan Rodden, Ph.D. Abstract, Quarterly Journal 27 of Political Science, 2013 Unintentional Gerrymandering: Political Geography and Electoral Bias in Legislatures Washington Post blog post 34 By J. Rodden, 8/18/2014 5/27/15 Report of Jonathan 47 Rodden, Ph.D. Table 4b. Reported Voting and 67 Registration by sex, race and Hispanic origin for states, November 2014 Turnout rates, 2000-2015 81 Rodden Report Figure 6, 81 Turnout rates	9 OF EASTERN MISSOURI 454 Whittier Street 10 St. Louis, Missouri 63108 By: Mr. Anthony Rothert 11 (314)652-3114 e-mail: tony@aclu-em.org 12 13 For the Defendants: 14 CROTZER & ORMSBY 15 130 South Bemiston Avenue, Suite 602 St. Louis, Missouri 63105 16 By: Ms. Cindy Ormsby Ms. Angela Bullock Gabel 17 (314)726-3040 e-mail: cormsby@crotzerormsby.com
12 13 14 15 16	Jonathan Rodden, Ph.D. Abstract, Quarterly Journal 27 of Political Science, 2013 Unintentional Gerrymandering: Political Geography and Electoral Bias in Legislatures Washington Post blog post 34 By J. Rodden, 8/18/2014 5/27/15 Report of Jonathan 47 Rodden, Ph.D. Table 4b. Reported Voting and Registration by sex, race and Hispanic origin for states, November 2014 Turnout rates, 2000-2015 Rodden Report Figure 6, Turnout rates Figure 3, Ferguson-Florissant 99	9
12 13 14 15 16 17	Jonathan Rodden, Ph.D. Abstract, Quarterly Journal 27 of Political Science, 2013 Unintentional Gerrymandering: Political Geography and Electoral Bias in Legislatures Washington Post blog post 34 By J. Rodden, 8/18/2014 5/27/15 Report of Jonathan 47 Rodden, Ph.D. Table 4b. Reported Voting and 67 Registration by sex, race and Hispanic origin for states, November 2014 Turnout rates, 2000-2015 81 Rodden Report Figure 6, 81 Turnout rates Figure 3, Ferguson-Florissant 99 SD - 1990 Census to 2010 Census African-American & Non-Hispanic	9
12 13 14 15 16 17 18 19	Jonathan Rodden, Ph.D. Abstract, Quarterly Journal 27 of Political Science, 2013 Unintentional Gerrymandering: Political Geography and Electoral Bias in Legislatures Washington Post blog post 34 By J. Rodden, 8/18/2014 5/27/15 Report of Jonathan 47 Rodden, Ph.D. Table 4b. Reported Voting and 67 Registration by sex, race and Hispanic origin for states, November 2014 Turnout rates, 2000-2015 81 Rodden Report Figure 6, 81 Turnout rates Figure 3, Ferguson-Florissant 99 SD - 1990 Census to 2010 Census African-American & Non-Hispanic White Population	9
12 13 14 15 16 17 18	Jonathan Rodden, Ph.D. Abstract, Quarterly Journal 27 of Political Science, 2013 Unintentional Gerrymandering: Political Geography and Electoral Bias in Legislatures Washington Post blog post 34 By J. Rodden, 8/18/2014 5/27/15 Report of Jonathan 47 Rodden, Ph.D. Table 4b. Reported Voting and 67 Registration by sex, race and Hispanic origin for states, November 2014 Turnout rates, 2000-2015 81 Rodden Report Figure 6, 81 Turnout rates Figure 3, Ferguson-Florissant 99 SD - 1990 Census to 2010 Census African-American & Non-Hispanic White Population Excel spreadsheet corresponding 107 with Figure 3	9
12 13 14 15 16 17 18 19	Jonathan Rodden, Ph.D. Abstract, Quarterly Journal 27 of Political Science, 2013 Unintentional Gerrymandering: Political Geography and Electoral Bias in Legislatures Washington Post blog post 34 By J. Rodden, 8/18/2014 5/27/15 Report of Jonathan 47 Rodden, Ph.D. Table 4b. Reported Voting and 67 Registration by sex, race and Hispanic origin for states, November 2014 Turnout rates, 2000-2015 81 Rodden Report Figure 6, 81 Turnout rates Figure 3, Ferguson-Florissant 99 SD - 1990 Census to 2010 Census African-American & Non-Hispanic White Population Excel spreadsheet corresponding 107 with Figure 3 Underlying data for Figure 8 127	9
12 13 14 15 16 17 18 19 20 21	Jonathan Rodden, Ph.D. Abstract, Quarterly Journal 27 of Political Science, 2013 Unintentional Gerrymandering: Political Geography and Electoral Bias in Legislatures Washington Post blog post 34 By J. Rodden, 8/18/2014 5/27/15 Report of Jonathan 47 Rodden, Ph.D. Table 4b. Reported Voting and 67 Registration by sex, race and Hispanic origin for states, November 2014 Turnout rates, 2000-2015 81 Rodden Report Figure 6, 81 Turnout rates Figure 3, Ferguson-Florissant 99 SD - 1990 Census to 2010 Census African-American & Non-Hispanic White Population Excel spreadsheet corresponding 107 with Figure 3	9
12 13 14 15 16 17 18 19 20 21 22	Jonathan Rodden, Ph.D. Abstract, Quarterly Journal 27 of Political Science, 2013 Unintentional Gerrymandering: Political Geography and Electoral Bias in Legislatures Washington Post blog post 34 By J. Rodden, 8/18/2014 5/27/15 Report of Jonathan 47 Rodden, Ph.D. Table 4b. Reported Voting and 67 Registration by sex, race and Hispanic origin for states, November 2014 Turnout rates, 2000-2015 81 Rodden Report Figure 6, 81 Turnout rates Figure 3, Ferguson-Florissant 99 SD - 1990 Census to 2010 Census African-American & Non-Hispanic White Population Excel spreadsheet corresponding 107 with Figure 3 Underlying data for Figure 8 127 Reformatted spreadsheet 127	9

	Page 5		Page 7
1	IT IS HEREBY STIPULATED AND AGREED, by and between	1	the attorneys on your side may object. As a general
2	counsel for the Plaintiffs and counsel for the Defendants,	2	
3	that this deposition may be taken in shorthand by Beth O.	3	matter, you can still answer my question unless they
4	Zink, a notary public and shorthand reporter, and	4	instruct you specifically not to. Do you understand?
5		5	A. Understood, yes.
6	afterwards transcribed into typewriting; and the signature		Q. Okay. It's okay to take breaks. Any time
7	of the witness is expressly reserved.	6	that you want to take a break, just let me know. The one
	(Rodden Deposition Exhibits 1 through 4 were		thing I would ask is that if I've posed a question to you,
8	previously marked for identification.)	8	you answer that question before taking your break. Is
9	(Whereupon, the deposition commenced at	9	that okay?
10	approximately 9:39 A.M.)	10	A. Yes.
11		11	Q. Great. What did you do to prepare for today's
12	JONATHAN RODDEN, Ph.D.,	12	deposition?
13	produced, sworn and examined on behalf of the Plaintiffs,	13	A. I sat down with my expert reports and re-read
14	deposes and says:	14	them and I also read the reports from the plaintiffs'
15	DIRECT EXAMINATION,	15	expert witnesses.
16	QUESTIONS BY MR. HO:	16	Q. Did you do anything else?
17	Q. Good morning, Dr. Rodden.	17	A. No.
18	A. Good morning.	18	Q. Did you meet with your with the attorneys
19	Q. Could you state and spell your full name for	19	on your side?
20	the record.	20	A. I arrived in town, I was here yesterday, and I
21	A. Jonathan, J-o-n-a-t-h-a-n, Andrew,	21	did speak with them yesterday.
22	A-n-d-r-e-w, Rodden, R-o-d-d-e-n.	22	Q. Okay. So in addition to preparing in
23	Q. And Dr. Rodden, you've been deposed before,	23	addition to reviewing your reports, you also met with the
24	correct?	24	attorneys to prepare for today's deposition?
25	A. Yes, I have.	25	A. Not in the not we spoke about the case,
	Page 6		Page 8
1	Q. I just want to very briefly go over some basic	1	but not really in the spirit of deposition preparation.
2	rules. This will be familiar to you, but just to refresh	2	Q. About how long did you meet?
3	your memory. First, obviously there's a court reporter	3	A. Maybe three, four hours.
4	here who's transcribing everything that we say. The thing	4	Q. Prior to that meeting yesterday, did you have
5	I'll ask is that if you could wait until I finish a	5	any conversations with the attorneys on your side to
6	question before giving your answer, and I'll wait until	6	prepare for today's deposition?
7	you finish your answer before asking the next question,	7	A. No.
8	that will keep help keep the record clear. Is that	8	Q. Okay. So just one meeting yesterday three or
9	okay?	9	four hours?
10	A. Yes.	10	A. That's right.
11	Q. Great. And I'll also ask that you answer	11	Q. Okay. I want to show you something that we've
12	questions verbally. The court reporter can't take down	12	marked as Rodden Exhibit 1.
13	gestures like head nods and shaking heads.	13	MS. ORMSBY: Thank you.
14	A. Yes.	14	Q. Sure. This is your CV, Dr. Rodden?
15	Q. Is that okay?	15	A. Yes.
16	A. Yes.	16	Q. Okay. Now, you've been a professor of
17	Q. Great. You understand today that you're under	17	political science at Stanford since 2007; is that right?
18	oath?	18	A. Yes.
19	A. Yes.	19	Q. And prior to that, you were a professor of
20	Q. Under penalty of perjury?	20	political science at MIT?
21	A. Yes.	20	A. Yes.
21		21	
	Q. Is there any reason that you cannot testify	22	Q. And that's you became a professor of
23	truthfully today?	23	political science at MIT in 1999; is that right?
24	A. No.		A. Yes.Q. Now, from the look of your CV here, it seems
25	 Q. From time to time when I ask questions, one of 	25	

	Page 9	Page 1	11
1	you've published a number of peer-reviewed articles and	1 and political and fiscal decentralization, so I'm	
2	book chapters; is that correct?	2 interested in local government more generally. And I, in	
3	A. Yes.	fact, still work in that topic on that topic as well.	
4	Q. And you are on a number of selection	4 Q. Have there been other areas of focus in term	ns
5	committees for awarding prizes for political science	of your research other than political geography and	
6	scholarship; is that right?	6 federalism?	
7	A. I have done those things, yes.	7 A. There's also been a body of work on what I	
8	Q. So is it fair to say that you're familiar with	8 call issue voting, so the extent to which extent to	
9	generally accepted standards for reliability for empirical	9 which people, when they go to cast a ballot in a vote, are	
10	research in the field of political science?	10 thinking about economic issues versus social issues, by	
11	A. Yes.	11 which I mean things like gay rights and abortion, the	
12	Q. Also fair to say that you are familiar with	12 extent to which voting behavior has multiple issue	
13	professional and ethical guidelines for the conduct of	13 components. I'm interested in the way those those	
14	research in political science?	14 issue preferences translate into voting behavior. I have	
15	A. Yes.	some papers that I think fit pretty well under that topic,	
16	Q. Okay. What would you describe as your primary	16 but I think those three overarching themes capture pretty	
17	area of research within the field of political science?	17 well most of what I've done.	
18	A. My current primary area of research is in the	18 Q. Beyond those three areas, political geograph	hy,
19	field that I call political geography, and in particular I	19 fiscal federalism and issue voting, any other areas of	f
20	am interested in understanding the geographic distribution	focus in your research as a political scientist?	
21	of political preferences and voting behavior as well as	21 A. I think those are three broad categories that	
22	various demographic information.	22 capture most of my research.	
23	I'm interested in how these things are	23 Q. And you consider yourself an expert on those	e
24	distributed in geographic space, especially in the context	24 three areas, political geography, fiscal federalism an	nd
25	of cities, and I'm interested in what happens when	25 issue voting?	
	Page 10	Page 1	12
1	-	-	12
1 2	electoral districts are mapped on top of those of those	1 A. Yes.	12
2	electoral districts are mapped on top of those of those underlying features of geography. I'm interested in how	 A. Yes. Q. Do you consider yourself an expert on 	12
	electoral districts are mapped on top of those of those underlying features of geography. I'm interested in how those features of geography change over time and then what	 A. Yes. Q. Do you consider yourself an expert on 	12
2	electoral districts are mapped on top of those of those underlying features of geography. I'm interested in how	 A. Yes. Q. Do you consider yourself an expert on residential segregation? 	
2 3 4	electoral districts are mapped on top of those of those underlying features of geography. I'm interested in how those features of geography change over time and then what happens to the process of political representation when we	 A. Yes. Q. Do you consider yourself an expert on residential segregation? A. Yes. 	
2 3 4 5	electoral districts are mapped on top of those of those underlying features of geography. I'm interested in how those features of geography change over time and then what happens to the process of political representation when we draw those districts.	 A. Yes. Q. Do you consider yourself an expert on residential segregation? A. Yes. Q. And what's your basis for considering yourse 	
2 3 4 5 6	electoral districts are mapped on top of those of those underlying features of geography. I'm interested in how those features of geography change over time and then what happens to the process of political representation when we draw those districts. So this is something that I study in many countries, but I have developed a particular interest in	 A. Yes. Q. Do you consider yourself an expert on residential segregation? A. Yes. Q. And what's your basis for considering yourse an expert on residential segregation? 	
2 3 4 5 6 7	electoral districts are mapped on top of those of those underlying features of geography. I'm interested in how those features of geography change over time and then what happens to the process of political representation when we draw those districts. So this is something that I study in many	 A. Yes. Q. Do you consider yourself an expert on residential segregation? A. Yes. Q. And what's your basis for considering yourse an expert on residential segregation? A. I have developed a course at Stanford that 	
2 3 4 5 6 7 8	electoral districts are mapped on top of those of those underlying features of geography. I'm interested in how those features of geography change over time and then what happens to the process of political representation when we draw those districts. So this is something that I study in many countries, but I have developed a particular interest in the United States and have been working a lot on that	 A. Yes. Q. Do you consider yourself an expert on residential segregation? A. Yes. Q. And what's your basis for considering yourse an expert on residential segregation? A. I have developed a course at Stanford that focuses heavily on residential segregation. I am the 	
2 3 4 5 6 7 8	electoral districts are mapped on top of those of those underlying features of geography. I'm interested in how those features of geography change over time and then what happens to the process of political representation when we draw those districts. So this is something that I study in many countries, but I have developed a particular interest in the United States and have been working a lot on that recently.	A. Yes. Q. Do you consider yourself an expert on residential segregation? A. Yes. Q. And what's your basis for considering yourse an expert on residential segregation? A. I have developed a course at Stanford that focuses heavily on residential segregation. I am the founder and director of the spatial social science lab at	
2 3 4 5 6 7 8 9	electoral districts are mapped on top of those of those underlying features of geography. I'm interested in how those features of geography change over time and then what happens to the process of political representation when we draw those districts. So this is something that I study in many countries, but I have developed a particular interest in the United States and have been working a lot on that recently. Q. Is it fair to describe that topic with the	A. Yes. Q. Do you consider yourself an expert on residential segregation? A. Yes. Q. And what's your basis for considering yourse an expert on residential segregation? A. I have developed a course at Stanford that focuses heavily on residential segregation. I am the founder and director of the spatial social science lab at Stanford. A big focus of this group is residential	
2 3 4 5 6 7 8 9 10	electoral districts are mapped on top of those of those underlying features of geography. I'm interested in how those features of geography change over time and then what happens to the process of political representation when we draw those districts. So this is something that I study in many countries, but I have developed a particular interest in the United States and have been working a lot on that recently. Q. Is it fair to describe that topic with the term political geography, for shorthand?	A. Yes. Q. Do you consider yourself an expert on residential segregation? A. Yes. Q. And what's your basis for considering yourse an expert on residential segregation? A. I have developed a course at Stanford that focuses heavily on residential segregation. I am the founder and director of the spatial social science lab at Stanford. A big focus of this group is residential segregation. We have been actively trying to understand	
2 3 4 5 6 7 8 9 10 11	electoral districts are mapped on top of those of those underlying features of geography. I'm interested in how those features of geography change over time and then what happens to the process of political representation when we draw those districts. So this is something that I study in many countries, but I have developed a particular interest in the United States and have been working a lot on that recently. Q. Is it fair to describe that topic with the term political geography, for shorthand? A. Yes.	A. Yes. Q. Do you consider yourself an expert on residential segregation? A. Yes. Q. And what's your basis for considering yourse an expert on residential segregation? A. I have developed a course at Stanford that focuses heavily on residential segregation. I am the founder and director of the spatial social science lab at Stanford. A big focus of this group is residential segregation. We have been actively trying to understand patterns of segregation in different cities using very	
2 3 4 5 6 7 8 9 10 11 12 13	electoral districts are mapped on top of those of those underlying features of geography. I'm interested in how those features of geography change over time and then what happens to the process of political representation when we draw those districts. So this is something that I study in many countries, but I have developed a particular interest in the United States and have been working a lot on that recently. Q. Is it fair to describe that topic with the term political geography, for shorthand? A. Yes. Q. Okay. You said that's your current area of	A. Yes. Q. Do you consider yourself an expert on residential segregation? A. Yes. Q. And what's your basis for considering yourse an expert on residential segregation? A. I have developed a course at Stanford that focuses heavily on residential segregation. I am the founder and director of the spatial social science lab at Stanford. A big focus of this group is residential segregation. We have been actively trying to understand patterns of segregation in different cities using very fine-grained data.	
2 3 4 5 6 7 8 9 10 11 12 13	electoral districts are mapped on top of those of those underlying features of geography. I'm interested in how those features of geography change over time and then what happens to the process of political representation when we draw those districts. So this is something that I study in many countries, but I have developed a particular interest in the United States and have been working a lot on that recently. Q. Is it fair to describe that topic with the term political geography, for shorthand? A. Yes. Q. Okay. You said that's your current area of focus?	A. Yes. Q. Do you consider yourself an expert on residential segregation? A. Yes. Q. And what's your basis for considering yourse an expert on residential segregation? A. I have developed a course at Stanford that focuses heavily on residential segregation. I am the founder and director of the spatial social science lab at Stanford. A big focus of this group is residential segregation. We have been actively trying to understand patterns of segregation in different cities using very fine-grained data. We have been looking at residential	
2 3 4 5 6 7 8 9 10 11 12 13 14 15	electoral districts are mapped on top of those of those underlying features of geography. I'm interested in how those features of geography change over time and then what happens to the process of political representation when we draw those districts. So this is something that I study in many countries, but I have developed a particular interest in the United States and have been working a lot on that recently. Q. Is it fair to describe that topic with the term political geography, for shorthand? A. Yes. Q. Okay. You said that's your current area of focus? A. Yes.	A. Yes. Q. Do you consider yourself an expert on residential segregation? A. Yes. Q. And what's your basis for considering yourse an expert on residential segregation? A. I have developed a course at Stanford that focuses heavily on residential segregation. I am the founder and director of the spatial social science lab at Stanford. A big focus of this group is residential segregation. We have been actively trying to understand patterns of segregation in different cities using very fine-grained data. We have been looking at residential segregation by race using data, block-level data from	
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	electoral districts are mapped on top of those of those underlying features of geography. I'm interested in how those features of geography change over time and then what happens to the process of political representation when we draw those districts. So this is something that I study in many countries, but I have developed a particular interest in the United States and have been working a lot on that recently. Q. Is it fair to describe that topic with the term political geography, for shorthand? A. Yes. Q. Okay. You said that's your current area of focus? A. Yes. Q. Have you had other areas of focus prior to	A. Yes. Q. Do you consider yourself an expert on residential segregation? A. Yes. Q. And what's your basis for considering yourseld an expert on residential segregation? A. I have developed a course at Stanford that focuses heavily on residential segregation. I am the founder and director of the spatial social science lab at Stanford. A big focus of this group is residential segregation. We have been actively trying to understand patterns of segregation in different cities using very fine-grained data. We have been looking at residential segregation by race using data, block-level data from different censuses, and as I described earlier, one of my	
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	electoral districts are mapped on top of those of those underlying features of geography. I'm interested in how those features of geography change over time and then what happens to the process of political representation when we draw those districts. So this is something that I study in many countries, but I have developed a particular interest in the United States and have been working a lot on that recently. Q. Is it fair to describe that topic with the term political geography, for shorthand? A. Yes. Q. Okay. You said that's your current area of focus? A. Yes. Q. Have you had other areas of focus prior to that in your research?	A. Yes. Q. Do you consider yourself an expert on residential segregation? A. Yes. Q. And what's your basis for considering yourseld an expert on residential segregation? A. I have developed a course at Stanford that focuses heavily on residential segregation. I am the founder and director of the spatial social science lab at Stanford. A big focus of this group is residential segregation. We have been actively trying to understand patterns of segregation in different cities using very fine-grained data. We have been looking at residential segregation by race using data, block-level data from different censuses, and as I described earlier, one of my interests in particular is political segregation. I have	
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	electoral districts are mapped on top of those of those underlying features of geography. I'm interested in how those features of geography change over time and then what happens to the process of political representation when we draw those districts. So this is something that I study in many countries, but I have developed a particular interest in the United States and have been working a lot on that recently. Q. Is it fair to describe that topic with the term political geography, for shorthand? A. Yes. Q. Okay. You said that's your current area of focus? A. Yes. Q. Have you had other areas of focus prior to that in your research? A. Yes. I spent a lot of time working on	A. Yes. Q. Do you consider yourself an expert on residential segregation? A. Yes. Q. And what's your basis for considering yourse an expert on residential segregation? A. I have developed a course at Stanford that focuses heavily on residential segregation. I am the founder and director of the spatial social science lab at Stanford. A big focus of this group is residential segregation. We have been actively trying to understand patterns of segregation in different cities using very fine-grained data. We have been looking at residential segregation by race using data, block-level data from different censuses, and as I described earlier, one of my interests in particular is political segregation. I have developed a data set that is now being used widely in the	
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	electoral districts are mapped on top of those of those underlying features of geography. I'm interested in how those features of geography change over time and then what happens to the process of political representation when we draw those districts. So this is something that I study in many countries, but I have developed a particular interest in the United States and have been working a lot on that recently. Q. Is it fair to describe that topic with the term political geography, for shorthand? A. Yes. Q. Okay. You said that's your current area of focus? A. Yes. Q. Have you had other areas of focus prior to that in your research? A. Yes. I spent a lot of time working on questions related to federalism and the vertical	A. Yes. Q. Do you consider yourself an expert on residential segregation? A. Yes. Q. And what's your basis for considering yourse an expert on residential segregation? A. I have developed a course at Stanford that focuses heavily on residential segregation. I am the founder and director of the spatial social science lab at Stanford. A big focus of this group is residential segregation. We have been actively trying to understand patterns of segregation in different cities using very fine-grained data. We have been looking at residential segregation by race using data, block-level data from different censuses, and as I described earlier, one of my interests in particular is political segregation. I have developed a data set that is now being used widely in the field by lots of people. It is a precinct-level data set of election results that allow us to put together information on race and information on voting behavior at	elf
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	electoral districts are mapped on top of those of those underlying features of geography. I'm interested in how those features of geography change over time and then what happens to the process of political representation when we draw those districts. So this is something that I study in many countries, but I have developed a particular interest in the United States and have been working a lot on that recently. Q. Is it fair to describe that topic with the term political geography, for shorthand? A. Yes. Q. Okay. You said that's your current area of focus? A. Yes. Q. Have you had other areas of focus prior to that in your research? A. Yes. I spent a lot of time working on questions related to federalism and the vertical distribution of authority within political systems. So by	A. Yes. Q. Do you consider yourself an expert on residential segregation? A. Yes. Q. And what's your basis for considering yourse an expert on residential segregation? A. I have developed a course at Stanford that focuses heavily on residential segregation. I am the founder and director of the spatial social science lab at Stanford. A big focus of this group is residential segregation. We have been actively trying to understand patterns of segregation in different cities using very fine-grained data. We have been looking at residential segregation by race using data, block-level data from different censuses, and as I described earlier, one of my interests in particular is political segregation. I have developed a data set that is now being used widely in the field by lots of people. It is a precinct-level data set of election results that allow us to put together information on race and information on voting behavior at the level of precincts really for the first time. So I've	elf
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	electoral districts are mapped on top of those of those underlying features of geography. I'm interested in how those features of geography change over time and then what happens to the process of political representation when we draw those districts. So this is something that I study in many countries, but I have developed a particular interest in the United States and have been working a lot on that recently. Q. Is it fair to describe that topic with the term political geography, for shorthand? A. Yes. Q. Okay. You said that's your current area of focus? A. Yes. Q. Have you had other areas of focus prior to that in your research? A. Yes. I spent a lot of time working on questions related to federalism and the vertical distribution of authority within political systems. So by that I mean the relationship between central governments,	A. Yes. Q. Do you consider yourself an expert on residential segregation? A. Yes. Q. And what's your basis for considering yourseld an expert on residential segregation? A. I have developed a course at Stanford that focuses heavily on residential segregation. I am the founder and director of the spatial social science lab at Stanford. A big focus of this group is residential segregation. We have been actively trying to understand patterns of segregation in different cities using very fine-grained data. We have been looking at residential segregation by race using data, block-level data from different censuses, and as I described earlier, one of my interests in particular is political segregation. I have developed a data set that is now being used widely in the field by lots of people. It is a precinct-level data set of election results that allow us to put together information on race and information on voting behavior at the level of precincts really for the first time. So I've been using that to understand patterns of residential	elf
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	electoral districts are mapped on top of those of those underlying features of geography. I'm interested in how those features of geography change over time and then what happens to the process of political representation when we draw those districts. So this is something that I study in many countries, but I have developed a particular interest in the United States and have been working a lot on that recently. Q. Is it fair to describe that topic with the term political geography, for shorthand? A. Yes. Q. Okay. You said that's your current area of focus? A. Yes. Q. Have you had other areas of focus prior to that in your research? A. Yes. I spent a lot of time working on questions related to federalism and the vertical distribution of authority within political systems. So by that I mean the relationship between central governments, state or provincial governments, and local or municipal	A. Yes. Q. Do you consider yourself an expert on residential segregation? A. Yes. Q. And what's your basis for considering yourse an expert on residential segregation? A. I have developed a course at Stanford that focuses heavily on residential segregation. I am the founder and director of the spatial social science lab at Stanford. A big focus of this group is residential segregation. We have been actively trying to understand patterns of segregation in different cities using very fine-grained data. We have been looking at residential segregation by race using data, block-level data from different censuses, and as I described earlier, one of my interests in particular is political segregation. I have developed a data set that is now being used widely in the field by lots of people. It is a precinct-level data set of election results that allow us to put together information on race and information on voting behavior at the level of precincts really for the first time. So I've	elf

Page 15 Page 13 1 date focus on the issue of socioeconomic disparities by 1 cities. 2 I've also looked at residential -- patterns of 2 3 3 residential segregation in other countries. I'm very A. Focusing in particular on disparities where 4 interested in how urban form in the United States is 4 that's the main -- the main focus is to try to explain 5 different from urban form in other places, and so 5 disparities or use disparities to explain something else, particular suburbanization is a topic on which I've -- to I would say there's no paper that meets that description 6 6 7 7 which I've given a great deal of attention. that is currently published and peer-reviewed. I would 8 Q. You have your CV in front of you. 8 say that is an important topic under the surface in 9 A. Yes. 9 several of these papers, including one called Geography 10 Q. Could you just give me a few examples of some 10 and Gridlock in the United States, in Nathaniel Persily, 11 of your peer-reviewed research on the issue of racial 11 Editor, Solutions to Political Polarization in America. 12 segregation. 12 There are a few other papers in which these topics are 13 A. This is an area that I have -- of research 13 important, but they are not the focus of those papers. 14 I've moved into recently. I do not have a peer-reviewed 14 Q. Do you consider yourself an expert on local 15 15 article yet that is -- that focuses on urban form as I politics in the St. Louis metro area? 16 just described it. There is a paper here that is 16 A. I would, in the past, have answered no to that 17 published in the -- in the Annual Review of Political 17 question. At this point I would answer yes to that 18 18 Science called the Geographic Distribution of Political question. I have become deeply immersed in that question. 19 Preferences, which goes into some detail about questions 19 Q. And when have you -- can you explain what 20 of -- involving the residential -- the distribution of 20 accounts for that change? 21 21 residential patterns in the United States in particular A. Because the St. Louis area, which is my home, 22 and talks about the way in which patterns of segregation 22 has become the focus of a great deal of attention, and in 23 within cities shape the overall distribution of political my work on cities I already described a course that I've 23 24 24 developed in which one of the things students do is pick a 25 25 I also have a book manuscript that is in city and ask -- answer a number of questions about Page 14 Page 16 progress that has guite a bit of analysis of patterns of 1 1 segregation, patterns of disparities. 2 residential segregation by race and by partisanship, and 2 I have designed labs for my students where 3 this is a book project that I've been working on for some 3 they have to download data from the census and from the 4 time, and my hope is to complete that book manuscript in 4 ACS, put those into a map and try to explore patterns of 5 the upcoming months. 5 segregation and income disparity, socioeconomic Q. But as of right now, you don't have any disparities. That's one of the things my students do in 6 6 7 peer-reviewed publications that address patterns of racial 7 those labs. One of the cities we've been focusing on for 8 segregation specifically, correct, Dr. Rodden? 8 some time, because it's my home and because I know a lot 9 A. As I mentioned, I believe -- well, the focus 9 about it, has been St. Louis. So it has been a number of 10 of the paper I mentioned in Annual Review of Political 10 years we've been doing labs with the students and I've 11 Science is not -- is not 100 percent on racial 11 been teaching using material drawn from St. Louis, and I 12 segregation, but there is no paper that -- with that in 12 have not gotten to the point of publishing it yet. 13 the title where that is in the abstract. It's there under 13 It has become the focus of national attention 14 the surface in several of my papers in much of my ongoing 14 recently, and so I kind of doubled my efforts to try to 15 work, but there is no -- there is no recent peer-reviewed 15 understand the place. And I began reviewing some other 16 paper that has that as its main focus. 16 literature, some other things that others have been 17 Q. Okay. Do you consider yourself an expert on 17 writing about St. Louis, and I was -- I was interested to 18 socioeconomic disparities by race? 18 notice that there were a number of mischaracterizations of 19 A. It is an area in which I feel I've been 19 North County in particular which gave me even more reason 20 gaining expertise. As I described, this is a -- my 20 to want to explore, and this has become something that 21 research is moving in this direction and it's something 21 I've done really -- prior to becoming involved in this 22 I've been deeply immersed in trying to understand 22 lawsuit, I put a lot of effort into mapping and trying to 23 recently, and I would say that I've reached the point 23 understand socioeconomic disparities and information about where I would call myself an expert in this. 24 24 racial groups in space and particular economic

Fax: 314.644.1334

information. I'm very interested in class and economic

25

Q. Do any of your peer-reviewed publications to

25

	Page 17		Page 19
1	distribution distribution of economic information,	1	Act today?
2	income in particular, in the St. Louis area. So through	2	A. To begin with, the the claim I made in the
3	that through those efforts, I believe I've developed	3	Florida case needs to be taken into context, which is that
4	some expertise on this.	4	this was a case in which I was testifying for the
5	Q. And that's all within the last year?	5	plaintiffs in a gerrymandering case, and a big part of the
6	A. Well, as I described, the I had already	6	defense was that certain districts that were
7	been working on this question for many years and more in	7	overwhelmingly democratic had been drawn as part of a
8	my teaching capacity than in my research capacity,	8	requirement of Section 5 of the Voting Rights Act, and
9	although it was just an interest of mine. But I would say	9	there were also some claims that were very unclear and
10	it's become a research focus in the last year.	10	quite muddy about Section 2. So I was asked by the by
11	Q. And to be clear, you have not authored any	11	the by the attorneys for the defense whether certain
12	published peer-reviewed research on local politics in the	12	districts were required to be whether they had to draw
13	St. Louis metro area, correct?	13	certain districts as part of the as part of the
14	A. I do not typically publish case studies of	14	requirements of the Voting Rights Act, and my response was
15	particular cities. That's not the style of research I do	15	essentially that this is a legal opinion that I'm not
16	in peer-reviewed journals. That is something that I would	16	willing to offer, this is a legal opinion on which I do
17	typically do through a different kind of outlet, and so I	17	not have expertise.
18	did publish an article in the Washington Post that	18	There is a professional class of Voting Rights
19	summarized some research that I had been doing. The	19	Acts Voting Rights Act experts. There is a class of
20	Washington Post is not peer-reviewed, although the blog in	20	expert witnesses who are professional Voting Rights Acts
21	which this appeared is actually edited by some prominent	21	Voting Rights Act expert witnesses. I'm not part of
22	political scientists who did review the work and give me	22	that class of individuals and I do not feel qualified to
23	some feedback that then helped me craft the article that I	23	make statements about conditions under which
24	published.	24	particularly with respect to Section 5 at that time, I did
25	Q. But you don't have anything in a peer-reviewed	25	not feel qualified to make legal conclusions, legal
	Page 18		Page 20
1	$\label{eq:page-18} Page~18$ political science journal that addresses the issue of	1	Page 20 judgments, that I thought should be left to the Court
1 2	-	1 2	•
	political science journal that addresses the issue of		judgments, that I thought should be left to the Court
2	political science journal that addresses the issue of local politics in the St. Louis metro area	2	judgments, that I thought should be left to the Court about whether those districts needed to be drawn. So it
2	political science journal that addresses the issue of local politics in the St. Louis metro area A. No.	2 3	judgments, that I thought should be left to the Court about whether those districts needed to be drawn. So it was an effort to make clear to the Court that I was not an
2 3 4	political science journal that addresses the issue of local politics in the St. Louis metro area A. No. Q correct?	2 3 4	judgments, that I thought should be left to the Court about whether those districts needed to be drawn. So it was an effort to make clear to the Court that I was not an expert on case law related to the VRA, and I am still not
2 3 4 5	political science journal that addresses the issue of local politics in the St. Louis metro area A. No. Q correct? A. That's correct.	2 3 4 5	judgments, that I thought should be left to the Court about whether those districts needed to be drawn. So it was an effort to make clear to the Court that I was not an expert on case law related to the VRA, and I am still not an individual who I don't have a J.D., I've not been to
2 3 4 5 6	political science journal that addresses the issue of local politics in the St. Louis metro area A. No. Q correct? A. That's correct. Q. Okay. Dr. Rodden, are you an expert on the	2 3 4 5 6	judgments, that I thought should be left to the Court about whether those districts needed to be drawn. So it was an effort to make clear to the Court that I was not an expert on case law related to the VRA, and I am still not an individual who I don't have a J.D., I've not been to law school, I do not have expertise on case law.
2 3 4 5 6 7	political science journal that addresses the issue of local politics in the St. Louis metro area A. No. Q correct? A. That's correct. Q. Okay. Dr. Rodden, are you an expert on the Voting Rights Act?	2 3 4 5 6 7	judgments, that I thought should be left to the Court about whether those districts needed to be drawn. So it was an effort to make clear to the Court that I was not an expert on case law related to the VRA, and I am still not an individual who I don't have a J.D., I've not been to law school, I do not have expertise on case law. I've read some cases and I try to understand
2 3 4 5 6 7 8	political science journal that addresses the issue of local politics in the St. Louis metro area A. No. Q correct? A. That's correct. Q. Okay. Dr. Rodden, are you an expert on the Voting Rights Act? A. Yes.	2 3 4 5 6 7 8	judgments, that I thought should be left to the Court about whether those districts needed to be drawn. So it was an effort to make clear to the Court that I was not an expert on case law related to the VRA, and I am still not an individual who I don't have a J.D., I've not been to law school, I do not have expertise on case law. I've read some cases and I try to understand the plain language as a political scientist, but I do not
2 3 4 5 6 7 8	political science journal that addresses the issue of local politics in the St. Louis metro area A. No. Q correct? A. That's correct. Q. Okay. Dr. Rodden, are you an expert on the Voting Rights Act? A. Yes. Q. Now, you have testified in redistricting	2 3 4 5 6 7 8	judgments, that I thought should be left to the Court about whether those districts needed to be drawn. So it was an effort to make clear to the Court that I was not an expert on case law related to the VRA, and I am still not an individual who I don't have a J.D., I've not been to law school, I do not have expertise on case law. I've read some cases and I try to understand the plain language as a political scientist, but I do not have expertise on the Voting Rights Act. I do not teach
2 3 4 5 6 7 8 9 10 11	political science journal that addresses the issue of local politics in the St. Louis metro area A. No. Q correct? A. That's correct. Q. Okay. Dr. Rodden, are you an expert on the Voting Rights Act? A. Yes. Q. Now, you have testified in redistricting litigation in the state of Florida, correct?	2 3 4 5 6 7 8 9 10 11 12	judgments, that I thought should be left to the Court about whether those districts needed to be drawn. So it was an effort to make clear to the Court that I was not an expert on case law related to the VRA, and I am still not an individual who I don't have a J.D., I've not been to law school, I do not have expertise on case law. I've read some cases and I try to understand the plain language as a political scientist, but I do not have expertise on the Voting Rights Act. I do not teach in the law school. I do not teach classes in the law
2 3 4 5 6 7 8 9 10 11 12	political science journal that addresses the issue of local politics in the St. Louis metro area A. No. Q correct? A. That's correct. Q. Okay. Dr. Rodden, are you an expert on the Voting Rights Act? A. Yes. Q. Now, you have testified in redistricting litigation in the state of Florida, correct? A. Yes.	2 3 4 5 6 7 8 9 10 11 12 13	judgments, that I thought should be left to the Court about whether those districts needed to be drawn. So it was an effort to make clear to the Court that I was not an expert on case law related to the VRA, and I am still not an individual who I don't have a J.D., I've not been to law school, I do not have expertise on case law. I've read some cases and I try to understand the plain language as a political scientist, but I do not have expertise on the Voting Rights Act. I do not teach in the law school. I do not teach classes in the law school on case law, and that's what I was trying to
2 3 4 5 6 7 8 9 10 11 12 13	political science journal that addresses the issue of local politics in the St. Louis metro area A. No. Q correct? A. That's correct. Q. Okay. Dr. Rodden, are you an expert on the Voting Rights Act? A. Yes. Q. Now, you have testified in redistricting litigation in the state of Florida, correct? A. Yes. Q. And you testified in open court, correct? A. Yes. Q. And when you gave that testimony, you were	2 3 4 5 6 7 8 9 10 11 12 13 14	judgments, that I thought should be left to the Court about whether those districts needed to be drawn. So it was an effort to make clear to the Court that I was not an expert on case law related to the VRA, and I am still not an individual who I don't have a J.D., I've not been to law school, I do not have expertise on case law. I've read some cases and I try to understand the plain language as a political scientist, but I do not have expertise on the Voting Rights Act. I do not teach in the law school. I do not teach classes in the law school on case law, and that's what I was trying to communicate with that claim. It is also the case that since that Florida case, I learned a lot about the Voting Rights Act while we
2 3 4 5 6 7 8 9 10 11 12 13 14	political science journal that addresses the issue of local politics in the St. Louis metro area A. No. Q correct? A. That's correct. Q. Okay. Dr. Rodden, are you an expert on the Voting Rights Act? A. Yes. Q. Now, you have testified in redistricting litigation in the state of Florida, correct? A. Yes. Q. And you testified in open court, correct? A. Yes. Q. And when you gave that testimony, you were under oath, correct?	2 3 4 5 6 7 8 9 10 11 12 13 14 15	judgments, that I thought should be left to the Court about whether those districts needed to be drawn. So it was an effort to make clear to the Court that I was not an expert on case law related to the VRA, and I am still not an individual who I don't have a J.D., I've not been to law school, I do not have expertise on case law. I've read some cases and I try to understand the plain language as a political scientist, but I do not have expertise on the Voting Rights Act. I do not teach in the law school. I do not teach classes in the law school on case law, and that's what I was trying to communicate with that claim. It is also the case that since that Florida case, I learned a lot about the Voting Rights Act while we were my expertise at the time, the focus of that case
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	political science journal that addresses the issue of local politics in the St. Louis metro area A. No. Q correct? A. That's correct. Q. Okay. Dr. Rodden, are you an expert on the Voting Rights Act? A. Yes. Q. Now, you have testified in redistricting litigation in the state of Florida, correct? A. Yes. Q. And you testified in open court, correct? A. Yes. Q. And when you gave that testimony, you were under oath, correct? A. Yes.	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	judgments, that I thought should be left to the Court about whether those districts needed to be drawn. So it was an effort to make clear to the Court that I was not an expert on case law related to the VRA, and I am still not an individual who I don't have a J.D., I've not been to law school, I do not have expertise on case law. I've read some cases and I try to understand the plain language as a political scientist, but I do not have expertise on the Voting Rights Act. I do not teach in the law school. I do not teach classes in the law school on case law, and that's what I was trying to communicate with that claim. It is also the case that since that Florida case, I learned a lot about the Voting Rights Act while we were my expertise at the time, the focus of that case was on gerrymandering. As I've studied gerrymandering and
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	political science journal that addresses the issue of local politics in the St. Louis metro area A. No. Q correct? A. That's correct. Q. Okay. Dr. Rodden, are you an expert on the Voting Rights Act? A. Yes. Q. Now, you have testified in redistricting litigation in the state of Florida, correct? A. Yes. Q. And you testified in open court, correct? A. Yes. Q. And when you gave that testimony, you were under oath, correct? A. Yes. Q. Do you recall testifying in that case that you	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	judgments, that I thought should be left to the Court about whether those districts needed to be drawn. So it was an effort to make clear to the Court that I was not an expert on case law related to the VRA, and I am still not an individual who I don't have a J.D., I've not been to law school, I do not have expertise on case law. I've read some cases and I try to understand the plain language as a political scientist, but I do not have expertise on the Voting Rights Act. I do not teach in the law school. I do not teach classes in the law school on case law, and that's what I was trying to communicate with that claim. It is also the case that since that Florida case, I learned a lot about the Voting Rights Act while we were my expertise at the time, the focus of that case was on gerrymandering. As I've studied gerrymandering and I've tried to understand how to identify it, I've learned
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	political science journal that addresses the issue of local politics in the St. Louis metro area A. No. Q correct? A. That's correct. Q. Okay. Dr. Rodden, are you an expert on the Voting Rights Act? A. Yes. Q. Now, you have testified in redistricting litigation in the state of Florida, correct? A. Yes. Q. And you testified in open court, correct? A. Yes. Q. And when you gave that testimony, you were under oath, correct? A. Yes. Q. Do you recall testifying in that case that you were not an expert on the Voting Rights Act?	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	judgments, that I thought should be left to the Court about whether those districts needed to be drawn. So it was an effort to make clear to the Court that I was not an expert on case law related to the VRA, and I am still not an individual who I don't have a J.D., I've not been to law school, I do not have expertise on case law. I've read some cases and I try to understand the plain language as a political scientist, but I do not have expertise on the Voting Rights Act. I do not teach in the law school. I do not teach classes in the law school on case law, and that's what I was trying to communicate with that claim. It is also the case that since that Florida case, I learned a lot about the Voting Rights Act while we were my expertise at the time, the focus of that case was on gerrymandering. As I've studied gerrymandering and I've tried to understand how to identify it, I've learned that that can't be done very effectively without really
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	political science journal that addresses the issue of local politics in the St. Louis metro area A. No. Q correct? A. That's correct. Q. Okay. Dr. Rodden, are you an expert on the Voting Rights Act? A. Yes. Q. Now, you have testified in redistricting litigation in the state of Florida, correct? A. Yes. Q. And you testified in open court, correct? A. Yes. Q. And when you gave that testimony, you were under oath, correct? A. Yes. Q. Do you recall testifying in that case that you were not an expert on the Voting Rights Act? A. I do.	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	judgments, that I thought should be left to the Court about whether those districts needed to be drawn. So it was an effort to make clear to the Court that I was not an expert on case law related to the VRA, and I am still not an individual who I don't have a J.D., I've not been to law school, I do not have expertise on case law. I've read some cases and I try to understand the plain language as a political scientist, but I do not have expertise on the Voting Rights Act. I do not teach in the law school. I do not teach classes in the law school on case law, and that's what I was trying to communicate with that claim. It is also the case that since that Florida case, I learned a lot about the Voting Rights Act while we were my expertise at the time, the focus of that case was on gerrymandering. As I've studied gerrymandering and I've tried to understand how to identify it, I've learned that that can't be done very effectively without really immersing yourself in the Voting Rights Act and trying to
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	political science journal that addresses the issue of local politics in the St. Louis metro area A. No. Q correct? A. That's correct. Q. Okay. Dr. Rodden, are you an expert on the Voting Rights Act? A. Yes. Q. Now, you have testified in redistricting litigation in the state of Florida, correct? A. Yes. Q. And you testified in open court, correct? A. Yes. Q. And when you gave that testimony, you were under oath, correct? A. Yes. Q. Do you recall testifying in that case that you were not an expert on the Voting Rights Act? A. I do. Q. Okay. Now your testimony is that you are an	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	judgments, that I thought should be left to the Court about whether those districts needed to be drawn. So it was an effort to make clear to the Court that I was not an expert on case law related to the VRA, and I am still not an individual who I don't have a J.D., I've not been to law school, I do not have expertise on case law. I've read some cases and I try to understand the plain language as a political scientist, but I do not have expertise on the Voting Rights Act. I do not teach in the law school. I do not teach classes in the law school on case law, and that's what I was trying to communicate with that claim. It is also the case that since that Florida case, I learned a lot about the Voting Rights Act while we were my expertise at the time, the focus of that case was on gerrymandering. As I've studied gerrymandering and I've tried to understand how to identify it, I've learned that that can't be done very effectively without really immersing yourself in the Voting Rights Act and trying to understand it. So this is something that I've been doing,
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	political science journal that addresses the issue of local politics in the St. Louis metro area A. No. Q correct? A. That's correct. Q. Okay. Dr. Rodden, are you an expert on the Voting Rights Act? A. Yes. Q. Now, you have testified in redistricting litigation in the state of Florida, correct? A. Yes. Q. And you testified in open court, correct? A. Yes. Q. And when you gave that testimony, you were under oath, correct? A. Yes. Q. Do you recall testifying in that case that you were not an expert on the Voting Rights Act? A. I do. Q. Okay. Now your testimony is that you are an expert on the Voting Rights Act?	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	judgments, that I thought should be left to the Court about whether those districts needed to be drawn. So it was an effort to make clear to the Court that I was not an expert on case law related to the VRA, and I am still not an individual who I don't have a J.D., I've not been to law school, I do not have expertise on case law. I've read some cases and I try to understand the plain language as a political scientist, but I do not have expertise on the Voting Rights Act. I do not teach in the law school. I do not teach classes in the law school on case law, and that's what I was trying to communicate with that claim. It is also the case that since that Florida case, I learned a lot about the Voting Rights Act while we were my expertise at the time, the focus of that case was on gerrymandering. As I've studied gerrymandering and I've tried to understand how to identify it, I've learned that that can't be done very effectively without really immersing yourself in the Voting Rights Act and trying to understand it. So this is something that I've been doing, I had started before that Florida case, and it's something
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	political science journal that addresses the issue of local politics in the St. Louis metro area A. No. Q correct? A. That's correct. Q. Okay. Dr. Rodden, are you an expert on the Voting Rights Act? A. Yes. Q. Now, you have testified in redistricting litigation in the state of Florida, correct? A. Yes. Q. And you testified in open court, correct? A. Yes. Q. And when you gave that testimony, you were under oath, correct? A. Yes. Q. Do you recall testifying in that case that you were not an expert on the Voting Rights Act? A. I do. Q. Okay. Now your testimony is that you are an expert on the Voting Rights Act? A. That is correct.	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	judgments, that I thought should be left to the Court about whether those districts needed to be drawn. So it was an effort to make clear to the Court that I was not an expert on case law related to the VRA, and I am still not an individual who I don't have a J.D., I've not been to law school, I do not have expertise on case law. I've read some cases and I try to understand the plain language as a political scientist, but I do not have expertise on the Voting Rights Act. I do not teach in the law school. I do not teach classes in the law school on case law, and that's what I was trying to communicate with that claim. It is also the case that since that Florida case, I learned a lot about the Voting Rights Act while we were my expertise at the time, the focus of that case was on gerrymandering. As I've studied gerrymandering and I've tried to understand how to identify it, I've learned that that can't be done very effectively without really immersing yourself in the Voting Rights Act and trying to understand it. So this is something that I've been doing, I had started before that Florida case, and it's something I've been working on pretty intensively since that.
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	political science journal that addresses the issue of local politics in the St. Louis metro area A. No. Q correct? A. That's correct. Q. Okay. Dr. Rodden, are you an expert on the Voting Rights Act? A. Yes. Q. Now, you have testified in redistricting litigation in the state of Florida, correct? A. Yes. Q. And you testified in open court, correct? A. Yes. Q. And when you gave that testimony, you were under oath, correct? A. Yes. Q. Do you recall testifying in that case that you were not an expert on the Voting Rights Act? A. I do. Q. Okay. Now your testimony is that you are an expert on the Voting Rights Act? A. That is correct. Q. Okay. What accounts for the change between	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	judgments, that I thought should be left to the Court about whether those districts needed to be drawn. So it was an effort to make clear to the Court that I was not an expert on case law related to the VRA, and I am still not an individual who I don't have a J.D., I've not been to law school, I do not have expertise on case law. I've read some cases and I try to understand the plain language as a political scientist, but I do not have expertise on the Voting Rights Act. I do not teach in the law school. I do not teach classes in the law school on case law, and that's what I was trying to communicate with that claim. It is also the case that since that Florida case, I learned a lot about the Voting Rights Act while we were my expertise at the time, the focus of that case was on gerrymandering. As I've studied gerrymandering and I've tried to understand how to identify it, I've learned that that can't be done very effectively without really immersing yourself in the Voting Rights Act and trying to understand it. So this is something that I've been doing, I had started before that Florida case, and it's something I've been working on pretty intensively since that. Q. And just for the record, what year, if you
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	political science journal that addresses the issue of local politics in the St. Louis metro area A. No. Q correct? A. That's correct. Q. Okay. Dr. Rodden, are you an expert on the Voting Rights Act? A. Yes. Q. Now, you have testified in redistricting litigation in the state of Florida, correct? A. Yes. Q. And you testified in open court, correct? A. Yes. Q. And when you gave that testimony, you were under oath, correct? A. Yes. Q. Do you recall testifying in that case that you were not an expert on the Voting Rights Act? A. I do. Q. Okay. Now your testimony is that you are an expert on the Voting Rights Act? A. That is correct.	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	judgments, that I thought should be left to the Court about whether those districts needed to be drawn. So it was an effort to make clear to the Court that I was not an expert on case law related to the VRA, and I am still not an individual who I don't have a J.D., I've not been to law school, I do not have expertise on case law. I've read some cases and I try to understand the plain language as a political scientist, but I do not have expertise on the Voting Rights Act. I do not teach in the law school. I do not teach classes in the law school on case law, and that's what I was trying to communicate with that claim. It is also the case that since that Florida case, I learned a lot about the Voting Rights Act while we were my expertise at the time, the focus of that case was on gerrymandering. As I've studied gerrymandering and I've tried to understand how to identify it, I've learned that that can't be done very effectively without really immersing yourself in the Voting Rights Act and trying to understand it. So this is something that I've been doing, I had started before that Florida case, and it's something I've been working on pretty intensively since that.

	Page 21		Page 23
1	I'm sorry. I don't recall.	1	Q. Okay.
2	Q. That's okay. 2012, 2013?	2	A. I do believe I have that expertise.
3	A. It was perhaps I'm sorry. I just I'm	3	Q. So you said, I think earlier, that you don't
4	not going to guess.	4	believe that you have the legal expertise to state whether
5	Q. That's fine.	5	or not a district complies with the Voting Rights Act; is
6	A. Because I might get it wrong by a year, so	6	that correct, Dr. Rodden?
7	Q. Sure.	7	A. Would you rephrase the question? I believe
8	A. I'm sure you have the information and you can	8	the question has been asked in slightly different ways
9	enter it into the record. I don't remember.	9	that I may have missed, so perhaps you could rephrase the
10	Q. Okay. So at the time of your testimony in the	10	question as you would like me to answer it.
11	Florida case, you did not view yourself as someone who	11	Q. So I believe you testified earlier that you do
12	could assess whether or not a district or an electoral	12	not believe yourself to be qualified to render a legal
13	arrangement complies with the requirements of the Voting	13	opinion as to whether or not a districting arrangement
14	Rights Act, correct, Dr. Rodden?	14	complies with the requirements of the Voting Rights Act?
15	A. As a social scientist, I can I can do the	15	MS. ORMSBY: I'm going to object. That
16	data analysis that is required for that assessment. I am	16	misrepresents the testimony that he provided.
17	not in a position to offer legal judgments about which	17	Q. Does that misrepresent your testimony, Dr.
18	particular districts need to be drawn, in particular with	18	Rodden?
19	respect to Section 5. I don't have that legal expertise.	19	A. I believe it does. I will I will try to be
20	As a social scientist, I do have the expertise to do the	20	as clear as possible, and we can keep at this for a while
21	requisite data analysis. The type of analysis that needs	21	if we need to. I'll just try to make myself clear. I am
22	to be done is rather straightforward and rather well	22	able to do quantitative analysis that will reveal to the
23	established. I do have the expertise to do that analysis.	23	Court the information it needs to lead to to make a
24	Q. You referred to a group of people as a class	24	decision about whether a districting plan is in compliance
25	of experts who were professional Voting Rights experts	25	with the VRA. My understanding as an expert witness is
	or experts who were processional voting regins experts		with the vivit. By understanding as an export withess is
	Page 22		Page 24
1	Voting Rights Act experts?	1	that that is the Court's job.
2	A. Yes. Within law schools in the United States	2	I have a more humble understanding of my job
3	there are people who teach classes on the VRA. I am	3	as an expert witness, which is to provide the Court with
4	tempted to teach such a class in the future. It is of	4	information. Now, sometimes I have to do the best I can
5	great interest to me, but it is not something that I have	5	to read the law and understand it in order to know how to
6	yet done.	6	process that information and write it down, but in the end
7	Q. Now, do you consider yourself among that class	7	I believe it's the Court's job to use that information and
8	of people who could describe themselves as professional	8	make the decision. It is not my job.
9	Voting Rights Act experts?	9	Q. So in this case you are not offering an
10	A. I am joining their ranks over time. I believe	10	opinion as to the ultimate legal question of whether or
11	I have I'm probably I believe I'm in that I'm in	11	not the districting arrangement at issue in this case
12	that class perhaps of people who has the social science	12	complies with the Voting Rights Act; is that correct, Dr.
13	expertise to do expert witness work on these cases. But	13	Rodden?
14	as I said before, I still don't I'm not a law professor	14	A. State the question again, please.
15	and I do not feel comfortable and will not today be making	15	Q. If you could read it back to him.
16	legal conclusions about about how the Court should	16	(Whereupon, the requested material was read by
17	consider some of the unsettled areas of this law, and	17	the reporter as follows:
18	there are some areas that, in my understanding, are still	18	"QUESTION: So in this case you are not
19	unsettled.	19	offering an opinion as to the ultimate legal question of
20	Q. So as of today, you do not consider yourself	20	whether or not the districting arrangement at issue in
21	qualified to render an expert opinion as to whether or not	21	this case complies with the Voting Rights Act; is that
22	a particular districting arrangement complies with the	22	correct, Dr. Rodden?
23	requirements of the Voting Rights Act; is that correct,	23	A. I am offering an opinion, if you would like to
24	Dr. Rodden?	24	call it a legal opinion, that's fine, but it's not it's
		25	for the Court to decide what is what is what is
25	A. That's incorrect.	23	for the court to decide what is what is what is

	Page 25		Page 27
1	ultimately admissible.	1	described earlier, I've put a lot of effort into putting
2	Q. Do you consider yourself an expert on racial	2	census data together with voting data at the lowest level
3	polarization, Dr. Rodden?	3	possible and conducting analysis of those. The required
4	A. Will you define racial polarization for me?	4	data analysis is precinct-level analysis of the
5	I'm not sure what you mean. Racial polarization of what?	5	relationship between the race of a place and the voting
6	Q. Of voting patterns. Are you an expert on	6	behavior of a place. This is something that I in which
7	racial polarization in voting patterns, Dr. Rodden?	7	I consider myself to be an expert and is something which I
8	A. Yes.	8	have done a great deal of teaching and on which I've been
9	Q. Okay. Who, in your mind, are some of the	9	focusing recent research.
10	nation's leading scholars on the study of racially	10	Q. Okay. Have any of your peer-reviewed
11	polarized voting patterns?	11	publications ever attempted to assess whether or not a
12	A. I need more time to add more names to the	12	district or electoral arrangement provides minority voters
13	list. I can come back later. Some good work has been	13	with an opportunity to elect their preferred candidates?
14	done by Stephen Ansolabehere. I'm sure there are people	14	A. That is a question that is of interest to the
15	I'm missing and I'll feel bad about missing, but I might	15	courts. It is and it's something on which I've been
16	have to come back to that and give you more names after	16	working with respect to this lawsuit. It is not something
17	I've had more time to think.	17	on which I have published a peer-reviewed paper.
18	Q. Have you heard of Bernard Rothman?	18	Q. Now, you have published peer-reviewed research
19	A. Yes.	19	that draws districts before, right, Dr. Rodden?
20	Q. Would you describe him as one of the leading	20	A. Yes.
21	scholars on within political science on the study of	21	Q. I want to show you I think a paper of yours.
22	racially polarized voting?	22	We've marked it as Rodden Exhibit 2. The title of this
23	A. Yes.	23	paper that you co-authored with Jowei Chen is
24	Q. Have you heard of Dick Engstrom?	24	"Unintentional Gerrymandering: Political Geography and
25	A. Yes.	25	Electoral Bias in Legislatures." Is that correct?
	Page 26		Page 28
1	Q. Would you describe him as one of the nation's	1	A. Yes.
2	leading scholars in political science on the study of	2	Q. And you published this article in 2013?
3	racially polarized voting?	3	A. Yes.
4	A. I believe I believe I would.	4	Q. What would you describe as the purpose of this
5	Q. Now, have you published any peer-reviewed	5	article? You know, let me withdraw that question because
6	publications that focus on the question of racially	6	I think that was a little broad.
7	polarized voting patterns?	7	A. Okay.
8	A. No.	8	Q. Am I correct, Dr. Rodden, that in this
9	Q. Prior to your work in this case, had you ever	9	article, among other things, you ran random redistricting
10	conducted an analysis of racially polarized voting	10	simulations in order to determine whether or not partisan
11	patterns?	11	bias in terms of the composition of congress is the
12	A. Not that is published in a peer-reviewed	12	product of intentional gerrymandering? Is that accurate?
13	publication, but I certainly have done a lot of work to	13	A. That is one of the interesting analyses I
14	examine the relationship between the racial composition of	14	think that emerges from the paper. The reason for doing
15	a place and the voting behavior of that place, which is	15	the research initially arose from something I described
16	ultimately what lies behind this analysis.	16	earlier was my interest in understanding how the geography
17	Q. Okay. Would you consider whether or not a	17	of voters in space, so the distribution of voters across
18	districting arrangement provides minority voters with an	18	census blocks, across neighborhoods, how that pure
19	opportunity to elect their preferred candidates within	19	geography affects representation when we draw electoral
20	your area of expertise?	20	districts.
21	A. Yes.	21	I wanted to know what happens when we draw
22	Q. And what is your basis for saying that?	22	electoral districts and how might that inevitably help one
23	A. It is a question that requires the collection	23	party or another purely because of geography. We have a
24	of low-level data, at the level of at a level of	24	literature in American political science that argues in
25	analysis that can be combined with voting behavior. As I	25	the presence of an asymmetry in the transformation of

	Page 29		Page 31
1	votes to seats, that gerrymandering is the cause, and we	1	A. Yes.
2	have a public discourse in newspapers that whenever people	2	Q. Okay. Now, in simulating districts in this
3	see that a party gets more seats than votes, they assume	3	article, you tried to insure that the districts were
4	that this is the cause of gerrymandering. What my hunch	4	roughly equal in terms of population size, correct?
5	Q. I'm sorry. Do you mean is caused by	5	A. Yes.
6	gerrymandering? I think you said	6	Q. And in measuring the population size of the
7	A. I'm sorry. The effect of. Thank you.	7	districts, you used decennial census data; is that
8	Q. Okay.	8	correct?
9	A. That this was caused by gerrymandering. So	9	A. Because redistricting requires the use of
10	so in my analysis I wanted to and this is also related	10	decennial data, that is that's the law. It is also the
11	to the book manuscript that I described that I've been	11	case that decennial census data are available at the level
12	working on, the hope was to be able to capture what the	12	of blocks. There are no other data available at the level
13	what the partisanship of some districts would be if they	13	of blocks, so those were the only data that were available
14	were not drawn by politicians in state legislatures. We	14	to us to aggregate up to the level of precincts.
15	wanted to just get a baseline understanding of what some	15	Q. Could you turn to Page 248 in your article?
16	districts would look like if they were compact and	16	And I'm looking at the first paragraph and the last
17	contiguous and so forth.	17	sentence in that paragraph where you write, "Rather than
18	Q. So is it fair to say that you wanted to test	18	examining the bias associated with existing districting
19	or assess in a quantitative way whether or not this	19	plans, many of which were undoubtedly influenced by
20	hypothesis that intentional gerrymandering was the cause	20	efforts at partisan and racial gerrymandering, we seek to
21	of partisan bias in the legislature?	21	estimate the electoral bias that would emerge under
22	A. We wanted to see if we could learn something	22	hypothetical districting plans that are not intentionally
23	about how much of the observed bias can be explained by	23	gerrymandered."
24	gerrymandering.	24	Did I read that correctly?
25	Q. And	25	A. Yes.
	Page 30		Page 32
1	$\label{eq:page 30} \textbf{Page 30}$ A. As we continued in this process, we have	1	$\label{eq:page 32} \textbf{Q}. \ \ \textbf{What do you mean by the phrase racial}$
1 2	•	1 2	
	A. As we continued in this process, we have		Q. What do you mean by the phrase racial
2	A. As we continued in this process, we have learned that some of the that some some of the bias	2	Q. What do you mean by the phrase racial gerrymandering in this sentence?
2	A. As we continued in this process, we have learned that some of the that some some of the bias we see, in our view, is likely to have been caused by	2	Q. What do you mean by the phrase racial gerrymandering in this sentence? A. An effort to effort to stack districts with
2 3 4	A. As we continued in this process, we have learned that some of the that some some of the bias we see, in our view, is likely to have been caused by gerrymandering, but there's a considerable amount that	2 3 4	Q. What do you mean by the phrase racial gerrymandering in this sentence? A. An effort to effort to stack districts with members of a minority group that would affect affect
2 3 4 5 6 7	A. As we continued in this process, we have learned that some of the that some some of the bias we see, in our view, is likely to have been caused by gerrymandering, but there's a considerable amount that would also still be there if we allowed an algorithm like	2 3 4 5	Q. What do you mean by the phrase racial gerrymandering in this sentence? A. An effort to effort to stack districts with members of a minority group that would affect affect outcomes. You know, there are efforts that individuals
2 3 4 5 6 7 8	A. As we continued in this process, we have learned that some of the that some some of the bias we see, in our view, is likely to have been caused by gerrymandering, but there's a considerable amount that would also still be there if we allowed an algorithm like ours to draw the districts.	2 3 4 5 6 7 8	Q. What do you mean by the phrase racial gerrymandering in this sentence? A. An effort to effort to stack districts with members of a minority group that would affect affect outcomes. You know, there are efforts that individuals might be might be undertaking in the legislature with
2 3 4 5 6 7 8	A. As we continued in this process, we have learned that some of the that some some of the bias we see, in our view, is likely to have been caused by gerrymandering, but there's a considerable amount that would also still be there if we allowed an algorithm like ours to draw the districts. Q. Now, in your opinion as a political scientist, would it be sufficient to address this hypothesis of whether or not gerrymandering causes partisan bias with	2 3 4 5 6 7 8	Q. What do you mean by the phrase racial gerrymandering in this sentence? A. An effort to effort to stack districts with members of a minority group that would affect affect outcomes. You know, there are efforts that individuals might be might be undertaking in the legislature with respect to really we're thinking mostly of partisanship. What we learned in the Florida case is that a lot of partisan gerrymandering is done under the cloak of the
2 3 4 5 6 7 8 9	A. As we continued in this process, we have learned that some of the that some some of the bias we see, in our view, is likely to have been caused by gerrymandering, but there's a considerable amount that would also still be there if we allowed an algorithm like ours to draw the districts. Q. Now, in your opinion as a political scientist, would it be sufficient to address this hypothesis of whether or not gerrymandering causes partisan bias with qualitative evidence, or do we need to test it	2 3 4 5 6 7 8 9	Q. What do you mean by the phrase racial gerrymandering in this sentence? A. An effort to effort to stack districts with members of a minority group that would affect affect outcomes. You know, there are efforts that individuals might be might be undertaking in the legislature with respect to really we're thinking mostly of partisanship. What we learned in the Florida case is that a lot of partisan gerrymandering is done under the cloak of the Voting Rights Act, so we were
2 3 4 5 6 7 8 9 10	A. As we continued in this process, we have learned that some of the that some some of the bias we see, in our view, is likely to have been caused by gerrymandering, but there's a considerable amount that would also still be there if we allowed an algorithm like ours to draw the districts. Q. Now, in your opinion as a political scientist, would it be sufficient to address this hypothesis of whether or not gerrymandering causes partisan bias with qualitative evidence, or do we need to test it quantitatively the way that you do here in order to	2 3 4 5 6 7 8 9 10	Q. What do you mean by the phrase racial gerrymandering in this sentence? A. An effort to effort to stack districts with members of a minority group that would affect affect outcomes. You know, there are efforts that individuals might be might be undertaking in the legislature with respect to really we're thinking mostly of partisanship. What we learned in the Florida case is that a lot of partisan gerrymandering is done under the cloak of the Voting Rights Act, so we were Q. I'm sorry, Dr. Rodden. I didn't my
2 3 4 5 6 7 8 9 10 11	A. As we continued in this process, we have learned that some of the that some some of the bias we see, in our view, is likely to have been caused by gerrymandering, but there's a considerable amount that would also still be there if we allowed an algorithm like ours to draw the districts. Q. Now, in your opinion as a political scientist, would it be sufficient to address this hypothesis of whether or not gerrymandering causes partisan bias with qualitative evidence, or do we need to test it quantitatively the way that you do here in order to satisfy standards of peer review?	2 3 4 5 6 7 8 9 10 11	Q. What do you mean by the phrase racial gerrymandering in this sentence? A. An effort to effort to stack districts with members of a minority group that would affect affect outcomes. You know, there are efforts that individuals might be might be undertaking in the legislature with respect to really we're thinking mostly of partisanship. What we learned in the Florida case is that a lot of partisan gerrymandering is done under the cloak of the Voting Rights Act, so we were Q. I'm sorry, Dr. Rodden. I didn't my question wasn't about the Florida case. I'm just asking
2 3 4 5 6 7 8 9 10 11 12	A. As we continued in this process, we have learned that some of the that some some of the bias we see, in our view, is likely to have been caused by gerrymandering, but there's a considerable amount that would also still be there if we allowed an algorithm like ours to draw the districts. Q. Now, in your opinion as a political scientist, would it be sufficient to address this hypothesis of whether or not gerrymandering causes partisan bias with qualitative evidence, or do we need to test it quantitatively the way that you do here in order to satisfy standards of peer review? A. In order to satisfy standards of peer review,	2 3 4 5 6 7 8 9 10 11 12	Q. What do you mean by the phrase racial gerrymandering in this sentence? A. An effort to effort to stack districts with members of a minority group that would affect affect outcomes. You know, there are efforts that individuals might be might be undertaking in the legislature with respect to really we're thinking mostly of partisanship. What we learned in the Florida case is that a lot of partisan gerrymandering is done under the cloak of the Voting Rights Act, so we were Q. I'm sorry, Dr. Rodden. I didn't my question wasn't about the Florida case. I'm just asking about what you meant here in this article when you used
2 3 4 5 6 7 8 9 10 11 12 13	A. As we continued in this process, we have learned that some of the that some some of the bias we see, in our view, is likely to have been caused by gerrymandering, but there's a considerable amount that would also still be there if we allowed an algorithm like ours to draw the districts. Q. Now, in your opinion as a political scientist, would it be sufficient to address this hypothesis of whether or not gerrymandering causes partisan bias with qualitative evidence, or do we need to test it quantitatively the way that you do here in order to satisfy standards of peer review? A. In order to satisfy standards of peer review, a quantitative analysis is it is more likely to satisfy	2 3 4 5 6 7 8 9 10 11 12 13	Q. What do you mean by the phrase racial gerrymandering in this sentence? A. An effort to effort to stack districts with members of a minority group that would affect affect outcomes. You know, there are efforts that individuals might be might be undertaking in the legislature with respect to really we're thinking mostly of partisanship. What we learned in the Florida case is that a lot of partisan gerrymandering is done under the cloak of the Voting Rights Act, so we were Q. I'm sorry, Dr. Rodden. I didn't my question wasn't about the Florida case. I'm just asking about what you meant here in this article when you used the expression racial gerrymandering.
2 3 4 5 6 7 8 9 10 11 12 13 14	A. As we continued in this process, we have learned that some of the that some some of the bias we see, in our view, is likely to have been caused by gerrymandering, but there's a considerable amount that would also still be there if we allowed an algorithm like ours to draw the districts. Q. Now, in your opinion as a political scientist, would it be sufficient to address this hypothesis of whether or not gerrymandering causes partisan bias with qualitative evidence, or do we need to test it quantitatively the way that you do here in order to satisfy standards of peer review? A. In order to satisfy standards of peer review, a quantitative analysis is it is more likely to satisfy standards of peer review.	2 3 4 5 6 7 8 9 10 11 12 13 14	Q. What do you mean by the phrase racial gerrymandering in this sentence? A. An effort to effort to stack districts with members of a minority group that would affect affect outcomes. You know, there are efforts that individuals might be might be undertaking in the legislature with respect to really we're thinking mostly of partisanship. What we learned in the Florida case is that a lot of partisan gerrymandering is done under the cloak of the Voting Rights Act, so we were Q. I'm sorry, Dr. Rodden. I didn't my question wasn't about the Florida case. I'm just asking about what you meant here in this article when you used the expression racial gerrymandering. A. My answer doesn't change. I was only using
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	A. As we continued in this process, we have learned that some of the that some some of the bias we see, in our view, is likely to have been caused by gerrymandering, but there's a considerable amount that would also still be there if we allowed an algorithm like ours to draw the districts. Q. Now, in your opinion as a political scientist, would it be sufficient to address this hypothesis of whether or not gerrymandering causes partisan bias with qualitative evidence, or do we need to test it quantitatively the way that you do here in order to satisfy standards of peer review? A. In order to satisfy standards of peer review, a quantitative analysis is it is more likely to satisfy standards of peer review. Q. I mean if someone just sort of cited the	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	Q. What do you mean by the phrase racial gerrymandering in this sentence? A. An effort to effort to stack districts with members of a minority group that would affect affect outcomes. You know, there are efforts that individuals might be might be undertaking in the legislature with respect to really we're thinking mostly of partisanship. What we learned in the Florida case is that a lot of partisan gerrymandering is done under the cloak of the Voting Rights Act, so we were Q. I'm sorry, Dr. Rodden. I didn't my question wasn't about the Florida case. I'm just asking about what you meant here in this article when you used the expression racial gerrymandering. A. My answer doesn't change. I was only using the Florida case as an example, highlighting something
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	A. As we continued in this process, we have learned that some of the that some some of the bias we see, in our view, is likely to have been caused by gerrymandering, but there's a considerable amount that would also still be there if we allowed an algorithm like ours to draw the districts. Q. Now, in your opinion as a political scientist, would it be sufficient to address this hypothesis of whether or not gerrymandering causes partisan bias with qualitative evidence, or do we need to test it quantitatively the way that you do here in order to satisfy standards of peer review? A. In order to satisfy standards of peer review, a quantitative analysis is it is more likely to satisfy standards of peer review. Q. I mean if someone just sort of cited the qualitative discourse that, oh, there's some intentional	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	Q. What do you mean by the phrase racial gerrymandering in this sentence? A. An effort to effort to stack districts with members of a minority group that would affect affect outcomes. You know, there are efforts that individuals might be might be undertaking in the legislature with respect to really we're thinking mostly of partisanship. What we learned in the Florida case is that a lot of partisan gerrymandering is done under the cloak of the Voting Rights Act, so we were Q. I'm sorry, Dr. Rodden. I didn't my question wasn't about the Florida case. I'm just asking about what you meant here in this article when you used the expression racial gerrymandering. A. My answer doesn't change. I was only using the Florida case as an example, highlighting something that I know I believe takes place, which is that in
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	A. As we continued in this process, we have learned that some of the that some some of the bias we see, in our view, is likely to have been caused by gerrymandering, but there's a considerable amount that would also still be there if we allowed an algorithm like ours to draw the districts. Q. Now, in your opinion as a political scientist, would it be sufficient to address this hypothesis of whether or not gerrymandering causes partisan bias with qualitative evidence, or do we need to test it quantitatively the way that you do here in order to satisfy standards of peer review? A. In order to satisfy standards of peer review, a quantitative analysis is it is more likely to satisfy standards of peer review. Q. I mean if someone just sort of cited the qualitative discourse that, oh, there's some intentional gerrymandering efforts, and look, there's partisan bias in	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	Q. What do you mean by the phrase racial gerrymandering in this sentence? A. An effort to effort to stack districts with members of a minority group that would affect affect outcomes. You know, there are efforts that individuals might be might be undertaking in the legislature with respect to really we're thinking mostly of partisanship. What we learned in the Florida case is that a lot of partisan gerrymandering is done under the cloak of the Voting Rights Act, so we were Q. I'm sorry, Dr. Rodden. I didn't my question wasn't about the Florida case. I'm just asking about what you meant here in this article when you used the expression racial gerrymandering. A. My answer doesn't change. I was only using the Florida case as an example, highlighting something that I know I believe takes place, which is that in some states it is in the interest of the Republican Party
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	A. As we continued in this process, we have learned that some of the that some some of the bias we see, in our view, is likely to have been caused by gerrymandering, but there's a considerable amount that would also still be there if we allowed an algorithm like ours to draw the districts. Q. Now, in your opinion as a political scientist, would it be sufficient to address this hypothesis of whether or not gerrymandering causes partisan bias with qualitative evidence, or do we need to test it quantitatively the way that you do here in order to satisfy standards of peer review? A. In order to satisfy standards of peer review, a quantitative analysis is it is more likely to satisfy standards of peer review. Q. I mean if someone just sort of cited the qualitative discourse that, oh, there's some intentional gerrymandering efforts, and look, there's partisan bias in the legislature, and then tried to publish a peer-reviewed	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	Q. What do you mean by the phrase racial gerrymandering in this sentence? A. An effort to effort to stack districts with members of a minority group that would affect affect outcomes. You know, there are efforts that individuals might be might be undertaking in the legislature with respect to really we're thinking mostly of partisanship. What we learned in the Florida case is that a lot of partisan gerrymandering is done under the cloak of the Voting Rights Act, so we were Q. I'm sorry, Dr. Rodden. I didn't my question wasn't about the Florida case. I'm just asking about what you meant here in this article when you used the expression racial gerrymandering. A. My answer doesn't change. I was only using the Florida case as an example, highlighting something that I know I believe takes place, which is that in some states it is in the interest of the Republican Party to draw districts that are republican partisan
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	A. As we continued in this process, we have learned that some of the that some some of the bias we see, in our view, is likely to have been caused by gerrymandering, but there's a considerable amount that would also still be there if we allowed an algorithm like ours to draw the districts. Q. Now, in your opinion as a political scientist, would it be sufficient to address this hypothesis of whether or not gerrymandering causes partisan bias with qualitative evidence, or do we need to test it quantitatively the way that you do here in order to satisfy standards of peer review? A. In order to satisfy standards of peer review, a quantitative analysis is it is more likely to satisfy standards of peer review. Q. I mean if someone just sort of cited the qualitative discourse that, oh, there's some intentional gerrymandering efforts, and look, there's partisan bias in the legislature, and then tried to publish a peer-reviewed study based on that, do you think that would get through	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	Q. What do you mean by the phrase racial gerrymandering in this sentence? A. An effort to effort to stack districts with members of a minority group that would affect affect outcomes. You know, there are efforts that individuals might be might be undertaking in the legislature with respect to really we're thinking mostly of partisanship. What we learned in the Florida case is that a lot of partisan gerrymandering is done under the cloak of the Voting Rights Act, so we were Q. I'm sorry, Dr. Rodden. I didn't my question wasn't about the Florida case. I'm just asking about what you meant here in this article when you used the expression racial gerrymandering. A. My answer doesn't change. I was only using the Florida case as an example, highlighting something that I know I believe takes place, which is that in some states it is in the interest of the Republican Party to draw districts that are republican partisan gerrymanders, but it is in their interest to present them
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	A. As we continued in this process, we have learned that some of the that some some of the bias we see, in our view, is likely to have been caused by gerrymandering, but there's a considerable amount that would also still be there if we allowed an algorithm like ours to draw the districts. Q. Now, in your opinion as a political scientist, would it be sufficient to address this hypothesis of whether or not gerrymandering causes partisan bias with qualitative evidence, or do we need to test it quantitatively the way that you do here in order to satisfy standards of peer review? A. In order to satisfy standards of peer review, a quantitative analysis is it is more likely to satisfy standards of peer review. Q. I mean if someone just sort of cited the qualitative discourse that, oh, there's some intentional gerrymandering efforts, and look, there's partisan bias in the legislature, and then tried to publish a peer-reviewed study based on that, do you think that would get through peer review?	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	Q. What do you mean by the phrase racial gerrymandering in this sentence? A. An effort to effort to stack districts with members of a minority group that would affect affect outcomes. You know, there are efforts that individuals might be might be undertaking in the legislature with respect to really we're thinking mostly of partisanship. What we learned in the Florida case is that a lot of partisan gerrymandering is done under the cloak of the Voting Rights Act, so we were Q. I'm sorry, Dr. Rodden. I didn't my question wasn't about the Florida case. I'm just asking about what you meant here in this article when you used the expression racial gerrymandering. A. My answer doesn't change. I was only using the Florida case as an example, highlighting something that I know I believe takes place, which is that in some states it is in the interest of the Republican Party to draw districts that are republican partisan gerrymanders, but it is in their interest to present them as having been required by the Voting Rights Act.
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	A. As we continued in this process, we have learned that some of the that some some of the bias we see, in our view, is likely to have been caused by gerrymandering, but there's a considerable amount that would also still be there if we allowed an algorithm like ours to draw the districts. Q. Now, in your opinion as a political scientist, would it be sufficient to address this hypothesis of whether or not gerrymandering causes partisan bias with qualitative evidence, or do we need to test it quantitatively the way that you do here in order to satisfy standards of peer review? A. In order to satisfy standards of peer review, a quantitative analysis is it is more likely to satisfy standards of peer review. Q. I mean if someone just sort of cited the qualitative discourse that, oh, there's some intentional gerrymandering efforts, and look, there's partisan bias in the legislature, and then tried to publish a peer-reviewed study based on that, do you think that would get through peer review? A. Not likely.	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	Q. What do you mean by the phrase racial gerrymandering in this sentence? A. An effort to effort to stack districts with members of a minority group that would affect affect outcomes. You know, there are efforts that individuals might be might be undertaking in the legislature with respect to really we're thinking mostly of partisanship. What we learned in the Florida case is that a lot of partisan gerrymandering is done under the cloak of the Voting Rights Act, so we were Q. I'm sorry, Dr. Rodden. I didn't my question wasn't about the Florida case. I'm just asking about what you meant here in this article when you used the expression racial gerrymandering. A. My answer doesn't change. I was only using the Florida case as an example, highlighting something that I know I believe takes place, which is that in some states it is in the interest of the Republican Party to draw districts that are republican partisan gerrymanders, but it is in their interest to present them as having been required by the Voting Rights Act. That may not be what other people mean by
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	A. As we continued in this process, we have learned that some of the that some some of the bias we see, in our view, is likely to have been caused by gerrymandering, but there's a considerable amount that would also still be there if we allowed an algorithm like ours to draw the districts. Q. Now, in your opinion as a political scientist, would it be sufficient to address this hypothesis of whether or not gerrymandering causes partisan bias with qualitative evidence, or do we need to test it quantitatively the way that you do here in order to satisfy standards of peer review? A. In order to satisfy standards of peer review, a quantitative analysis is it is more likely to satisfy standards of peer review. Q. I mean if someone just sort of cited the qualitative discourse that, oh, there's some intentional gerrymandering efforts, and look, there's partisan bias in the legislature, and then tried to publish a peer-reviewed study based on that, do you think that would get through peer review? A. Not likely. Q. You would want to supplement that kind of	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	Q. What do you mean by the phrase racial gerrymandering in this sentence? A. An effort to effort to stack districts with members of a minority group that would affect affect outcomes. You know, there are efforts that individuals might be might be undertaking in the legislature with respect to really we're thinking mostly of partisanship. What we learned in the Florida case is that a lot of partisan gerrymandering is done under the cloak of the Voting Rights Act, so we were Q. I'm sorry, Dr. Rodden. I didn't my question wasn't about the Florida case. I'm just asking about what you meant here in this article when you used the expression racial gerrymandering. A. My answer doesn't change. I was only using the Florida case as an example, highlighting something that I know I believe takes place, which is that in some states it is in the interest of the Republican Party to draw districts that are republican partisan gerrymanders, but it is in their interest to present them as having been required by the Voting Rights Act. That may not be what other people mean by racial gerrymandering, and if I misused the phrase, then
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	A. As we continued in this process, we have learned that some of the that some some of the bias we see, in our view, is likely to have been caused by gerrymandering, but there's a considerable amount that would also still be there if we allowed an algorithm like ours to draw the districts. Q. Now, in your opinion as a political scientist, would it be sufficient to address this hypothesis of whether or not gerrymandering causes partisan bias with qualitative evidence, or do we need to test it quantitatively the way that you do here in order to satisfy standards of peer review? A. In order to satisfy standards of peer review, a quantitative analysis is it is more likely to satisfy standards of peer review. Q. I mean if someone just sort of cited the qualitative discourse that, oh, there's some intentional gerrymandering efforts, and look, there's partisan bias in the legislature, and then tried to publish a peer-reviewed study based on that, do you think that would get through peer review? A. Not likely.	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	Q. What do you mean by the phrase racial gerrymandering in this sentence? A. An effort to effort to stack districts with members of a minority group that would affect affect outcomes. You know, there are efforts that individuals might be might be undertaking in the legislature with respect to really we're thinking mostly of partisanship. What we learned in the Florida case is that a lot of partisan gerrymandering is done under the cloak of the Voting Rights Act, so we were Q. I'm sorry, Dr. Rodden. I didn't my question wasn't about the Florida case. I'm just asking about what you meant here in this article when you used the expression racial gerrymandering. A. My answer doesn't change. I was only using the Florida case as an example, highlighting something that I know I believe takes place, which is that in some states it is in the interest of the Republican Party to draw districts that are republican partisan gerrymanders, but it is in their interest to present them as having been required by the Voting Rights Act. That may not be what other people mean by

	Page 33		Page 35
1	Q. I'm just curious to know about how you meant	1	and the first sentence. "Recent research by political
2	it when you were using it. I believe the first thing you	2	scientists has shown that small, but well-organized
3	said, when you answered my question, was efforts to stack	3	interest groups such as unionized teachers and municipal
4	districts with a certain percentage of minorities to	4	workers benefit handsomely from low turnout off-cycle
5	affect election outcomes?	5	elections."
6	A. To I was thinking about partisan outcomes.	6	Did I read what you wrote correctly?
7	Q. Uh-huh.	7	A. Yes.
8	A. Yes. I was thinking about I mean I	8	Q. And what do you mean by off-cycle elections?
9	understand this is a complicated area of the law in which	9	A. Non-November elections.
10	in which one might it's difficult to disentangle	10	Q. Okay. And the Ferguson-Florissant School
11	Q. Now	11	District board elections are off-cycle elections, correct?
12	A efforts at racial and partisan	12	A. Correct.
13	gerrymandering. I really had in mind here the notion that	13	Q. In your opinion as a political scientist,
14	one, with partisan goals, might might use might use	14	unionized teachers benefit from off-cycle elections,
15	racial groups as a you know, as a kind of shorthand.	15	correct?
16	When one is moving around census blocks and trying to	16	A. That is a finding of a student of mine who has
17	achieve a certain partisan gerrymandering outcome, race is	17	written a dissertation on the topic.
18	most certainly one of the variables they use.	18	Q. And do you have any reason to dispute that
19	Q. Okay.	19	finding?
20	A. That's what I had in mind.	20	A. No.
21	Q. So when you're referring to racial	21	Q. So in your opinion as a political scientist,
22	gerrymandering here, you're referring to efforts that have	22	unionized teachers benefit from off-cycle elections?
23	partisan intentions. You're not referring to any	23	A. That is my opinion of the state of the
24	consideration of race in redistricting that seeks to	24	literature. I have not done research on that topic.
25	affect the outcome of an election; is that right, Dr.	25	Q. And specifically in your opinion, do the
	Page 34		Page 36
1	Page 34 Rodden?	1	$Page\ 36$ teachers unions in the Ferguson-Florissant school district
1 2	Ç	2	-
	Rodden?		teachers unions in the Ferguson-Florissant school district
2 3 4	Rodden? A. That is correct. I would not refer intentionally to an an honest effort to abide by the Voting Rights Act, I would not refer to that as	2 3 4	teachers unions in the Ferguson-Florissant school district benefit from off-cycle elections in the Ferguson-Florissant school district? A. I have not done analysis on union involvement
2	Rodden? A. That is correct. I would not refer intentionally to an an honest effort to abide by the Voting Rights Act, I would not refer to that as gerrymandering, and if I appear to have done so, it was	2 3 4 5	teachers unions in the Ferguson-Florissant school district benefit from off-cycle elections in the Ferguson-Florissant school district? A. I have not done analysis on union involvement in local elections in the Ferguson-Florissant school
2 3 4 5 6	Rodden? A. That is correct. I would not refer intentionally to an an honest effort to abide by the Voting Rights Act, I would not refer to that as gerrymandering, and if I appear to have done so, it was inadvertent.	2 3 4 5 6	teachers unions in the Ferguson-Florissant school district benefit from off-cycle elections in the Ferguson-Florissant school district? A. I have not done analysis on union involvement in local elections in the Ferguson-Florissant school district.
2 3 4 5 6 7	Rodden? A. That is correct. I would not refer intentionally to an an honest effort to abide by the Voting Rights Act, I would not refer to that as gerrymandering, and if I appear to have done so, it was inadvertent. Q. Oh, no. I wasn't making any statements about	2 3 4 5 6 7	teachers unions in the Ferguson-Florissant school district benefit from off-cycle elections in the Ferguson-Florissant school district? A. I have not done analysis on union involvement in local elections in the Ferguson-Florissant school district. Q. So you don't have an opinion one way or
2 3 4 5 6 7 8	Rodden? A. That is correct. I would not refer intentionally to an an honest effort to abide by the Voting Rights Act, I would not refer to that as gerrymandering, and if I appear to have done so, it was inadvertent. Q. Oh, no. I wasn't making any statements about what you appear to be doing. I just wanted to understand	2 3 4 5 6 7 8	teachers unions in the Ferguson-Florissant school district benefit from off-cycle elections in the Ferguson-Florissant school district? A. I have not done analysis on union involvement in local elections in the Ferguson-Florissant school district. Q. So you don't have an opinion one way or another as to whether or not the teachers union in the
2 3 4 5 6 7 8	Rodden? A. That is correct. I would not refer intentionally to an an honest effort to abide by the Voting Rights Act, I would not refer to that as gerrymandering, and if I appear to have done so, it was inadvertent. Q. Oh, no. I wasn't making any statements about what you appear to be doing. I just wanted to understand what you were saying.	2 3 4 5 6 7 8	teachers unions in the Ferguson-Florissant school district benefit from off-cycle elections in the Ferguson-Florissant school district? A. I have not done analysis on union involvement in local elections in the Ferguson-Florissant school district. Q. So you don't have an opinion one way or another as to whether or not the teachers union in the Ferguson-Florissant school district benefits from the fact
2 3 4 5 6 7 8 9	Rodden? A. That is correct. I would not refer intentionally to an an honest effort to abide by the Voting Rights Act, I would not refer to that as gerrymandering, and if I appear to have done so, it was inadvertent. Q. Oh, no. I wasn't making any statements about what you appear to be doing. I just wanted to understand what you were saying. A. I understand.	2 3 4 5 6 7 8 9	teachers unions in the Ferguson-Florissant school district benefit from off-cycle elections in the Ferguson-Florissant school district? A. I have not done analysis on union involvement in local elections in the Ferguson-Florissant school district. Q. So you don't have an opinion one way or another as to whether or not the teachers union in the Ferguson-Florissant school district benefits from the fact that elections are off-cycle?
2 3 4 5 6 7 8 9 10	Rodden? A. That is correct. I would not refer intentionally to an an honest effort to abide by the Voting Rights Act, I would not refer to that as gerrymandering, and if I appear to have done so, it was inadvertent. Q. Oh, no. I wasn't making any statements about what you appear to be doing. I just wanted to understand what you were saying. A. I understand. Q. Let's turn to something else. This has been	2 3 4 5 6 7 8 9 10	teachers unions in the Ferguson-Florissant school district benefit from off-cycle elections in the Ferguson-Florissant school district? A. I have not done analysis on union involvement in local elections in the Ferguson-Florissant school district. Q. So you don't have an opinion one way or another as to whether or not the teachers union in the Ferguson-Florissant school district benefits from the fact that elections are off-cycle? A. I don't.
2 3 4 5 6 7 8 9 10 11	Rodden? A. That is correct. I would not refer intentionally to an an honest effort to abide by the Voting Rights Act, I would not refer to that as gerrymandering, and if I appear to have done so, it was inadvertent. Q. Oh, no. I wasn't making any statements about what you appear to be doing. I just wanted to understand what you were saying. A. I understand. Q. Let's turn to something else. This has been pre-marked as Rodden Exhibit 3. Do you recognize this?	2 3 4 5 6 7 8 9 10 11 12	teachers unions in the Ferguson-Florissant school district benefit from off-cycle elections in the Ferguson-Florissant school district? A. I have not done analysis on union involvement in local elections in the Ferguson-Florissant school district. Q. So you don't have an opinion one way or another as to whether or not the teachers union in the Ferguson-Florissant school district benefits from the fact that elections are off-cycle? A. I don't. Q. Do you have any reason to think that the
2 3 4 5 6 7 8 9 10 11 12 13	Rodden? A. That is correct. I would not refer intentionally to an an honest effort to abide by the Voting Rights Act, I would not refer to that as gerrymandering, and if I appear to have done so, it was inadvertent. Q. Oh, no. I wasn't making any statements about what you appear to be doing. I just wanted to understand what you were saying. A. I understand. Q. Let's turn to something else. This has been pre-marked as Rodden Exhibit 3. Do you recognize this? A. I do.	2 3 4 5 6 7 8 9 10 11 12 13	teachers unions in the Ferguson-Florissant school district benefit from off-cycle elections in the Ferguson-Florissant school district? A. I have not done analysis on union involvement in local elections in the Ferguson-Florissant school district. Q. So you don't have an opinion one way or another as to whether or not the teachers union in the Ferguson-Florissant school district benefits from the fact that elections are off-cycle? A. I don't. Q. Do you have any reason to think that the Ferguson-Florissant school district teachers union is
2 3 4 5 6 7 8 9 10 11 12 13	Rodden? A. That is correct. I would not refer intentionally to an an honest effort to abide by the Voting Rights Act, I would not refer to that as gerrymandering, and if I appear to have done so, it was inadvertent. Q. Oh, no. I wasn't making any statements about what you appear to be doing. I just wanted to understand what you were saying. A. I understand. Q. Let's turn to something else. This has been pre-marked as Rodden Exhibit 3. Do you recognize this? A. I do. Q. I believe earlier you testified that you had	2 3 4 5 6 7 8 9 10 11 12 13 14	teachers unions in the Ferguson-Florissant school district benefit from off-cycle elections in the Ferguson-Florissant school district? A. I have not done analysis on union involvement in local elections in the Ferguson-Florissant school district. Q. So you don't have an opinion one way or another as to whether or not the teachers union in the Ferguson-Florissant school district benefits from the fact that elections are off-cycle? A. I don't. Q. Do you have any reason to think that the Ferguson-Florissant school district teachers union is different from other teachers unions, which I believe you
2 3 4 5 6 7 8 9 10 11 12 13 14	Rodden? A. That is correct. I would not refer intentionally to an an honest effort to abide by the Voting Rights Act, I would not refer to that as gerrymandering, and if I appear to have done so, it was inadvertent. Q. Oh, no. I wasn't making any statements about what you appear to be doing. I just wanted to understand what you were saying. A. I understand. Q. Let's turn to something else. This has been pre-marked as Rodden Exhibit 3. Do you recognize this? A. I do. Q. I believe earlier you testified that you had written something for the Washington Post about the St.	2 3 4 5 6 7 8 9 10 11 12 13 14	teachers unions in the Ferguson-Florissant school district benefit from off-cycle elections in the Ferguson-Florissant school district? A. I have not done analysis on union involvement in local elections in the Ferguson-Florissant school district. Q. So you don't have an opinion one way or another as to whether or not the teachers union in the Ferguson-Florissant school district benefits from the fact that elections are off-cycle? A. I don't. Q. Do you have any reason to think that the Ferguson-Florissant school district teachers union is different from other teachers unions, which I believe you testified, as a general matter you have seen the research,
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	Rodden? A. That is correct. I would not refer intentionally to an an honest effort to abide by the Voting Rights Act, I would not refer to that as gerrymandering, and if I appear to have done so, it was inadvertent. Q. Oh, no. I wasn't making any statements about what you appear to be doing. I just wanted to understand what you were saying. A. I understand. Q. Let's turn to something else. This has been pre-marked as Rodden Exhibit 3. Do you recognize this? A. I do. Q. I believe earlier you testified that you had written something for the Washington Post about the St. Louis metro area. Is this what you were referring to?	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	teachers unions in the Ferguson-Florissant school district benefit from off-cycle elections in the Ferguson-Florissant school district? A. I have not done analysis on union involvement in local elections in the Ferguson-Florissant school district. Q. So you don't have an opinion one way or another as to whether or not the teachers union in the Ferguson-Florissant school district benefits from the fact that elections are off-cycle? A. I don't. Q. Do you have any reason to think that the Ferguson-Florissant school district teachers union is different from other teachers unions, which I believe you testified, as a general matter you have seen the research, benefit from off-cycle elections?
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	Rodden? A. That is correct. I would not refer intentionally to an an honest effort to abide by the Voting Rights Act, I would not refer to that as gerrymandering, and if I appear to have done so, it was inadvertent. Q. Oh, no. I wasn't making any statements about what you appear to be doing. I just wanted to understand what you were saying. A. I understand. Q. Let's turn to something else. This has been pre-marked as Rodden Exhibit 3. Do you recognize this? A. I do. Q. I believe earlier you testified that you had written something for the Washington Post about the St. Louis metro area. Is this what you were referring to? A. Yes.	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	teachers unions in the Ferguson-Florissant school district benefit from off-cycle elections in the Ferguson-Florissant school district? A. I have not done analysis on union involvement in local elections in the Ferguson-Florissant school district. Q. So you don't have an opinion one way or another as to whether or not the teachers union in the Ferguson-Florissant school district benefits from the fact that elections are off-cycle? A. I don't. Q. Do you have any reason to think that the Ferguson-Florissant school district teachers union is different from other teachers unions, which I believe you testified, as a general matter you have seen the research, benefit from off-cycle elections? A. I don't have the counterfactual. I have not
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	Rodden? A. That is correct. I would not refer intentionally to an an honest effort to abide by the Voting Rights Act, I would not refer to that as gerrymandering, and if I appear to have done so, it was inadvertent. Q. Oh, no. I wasn't making any statements about what you appear to be doing. I just wanted to understand what you were saying. A. I understand. Q. Let's turn to something else. This has been pre-marked as Rodden Exhibit 3. Do you recognize this? A. I do. Q. I believe earlier you testified that you had written something for the Washington Post about the St. Louis metro area. Is this what you were referring to? A. Yes. Q. Okay. I want to turn to Page 6. I'm sorry,	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	teachers unions in the Ferguson-Florissant school district benefit from off-cycle elections in the Ferguson-Florissant school district? A. I have not done analysis on union involvement in local elections in the Ferguson-Florissant school district. Q. So you don't have an opinion one way or another as to whether or not the teachers union in the Ferguson-Florissant school district benefits from the fact that elections are off-cycle? A. I don't. Q. Do you have any reason to think that the Ferguson-Florissant school district teachers union is different from other teachers unions, which I believe you testified, as a general matter you have seen the research, benefit from off-cycle elections? A. I don't have the counterfactual. I have not observed Ferguson-Florissant School Districts held in
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	Rodden? A. That is correct. I would not refer intentionally to an an honest effort to abide by the Voting Rights Act, I would not refer to that as gerrymandering, and if I appear to have done so, it was inadvertent. Q. Oh, no. I wasn't making any statements about what you appear to be doing. I just wanted to understand what you were saying. A. I understand. Q. Let's turn to something else. This has been pre-marked as Rodden Exhibit 3. Do you recognize this? A. I do. Q. I believe earlier you testified that you had written something for the Washington Post about the St. Louis metro area. Is this what you were referring to? A. Yes. Q. Okay. I want to turn to Page 6. I'm sorry, and to be clear, this is for the Monkey Cage blog on the	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	teachers unions in the Ferguson-Florissant school district benefit from off-cycle elections in the Ferguson-Florissant school district? A. I have not done analysis on union involvement in local elections in the Ferguson-Florissant school district. Q. So you don't have an opinion one way or another as to whether or not the teachers union in the Ferguson-Florissant school district benefits from the fact that elections are off-cycle? A. I don't. Q. Do you have any reason to think that the Ferguson-Florissant school district teachers union is different from other teachers unions, which I believe you testified, as a general matter you have seen the research, benefit from off-cycle elections? A. I don't have the counterfactual. I have not observed Ferguson-Florissant School Districts held inFerguson-Florissant school board elections held in
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	Rodden? A. That is correct. I would not refer intentionally to an an honest effort to abide by the Voting Rights Act, I would not refer to that as gerrymandering, and if I appear to have done so, it was inadvertent. Q. Oh, no. I wasn't making any statements about what you appear to be doing. I just wanted to understand what you were saying. A. I understand. Q. Let's turn to something else. This has been pre-marked as Rodden Exhibit 3. Do you recognize this? A. I do. Q. I believe earlier you testified that you had written something for the Washington Post about the St. Louis metro area. Is this what you were referring to? A. Yes. Q. Okay. I want to turn to Page 6. I'm sorry, and to be clear, this is for the Monkey Cage blog on the Washington Post, correct?	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	teachers unions in the Ferguson-Florissant school district benefit from off-cycle elections in the Ferguson-Florissant school district? A. I have not done analysis on union involvement in local elections in the Ferguson-Florissant school district. Q. So you don't have an opinion one way or another as to whether or not the teachers union in the Ferguson-Florissant school district benefits from the fact that elections are off-cycle? A. I don't. Q. Do you have any reason to think that the Ferguson-Florissant school district teachers union is different from other teachers unions, which I believe you testified, as a general matter you have seen the research, benefit from off-cycle elections? A. I don't have the counterfactual. I have not observed Ferguson-Florissant School Districts held inFerguson-Florissant school board elections held in November, so I cannot make the comparison. I can only
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	Rodden? A. That is correct. I would not refer intentionally to an an honest effort to abide by the Voting Rights Act, I would not refer to that as gerrymandering, and if I appear to have done so, it was inadvertent. Q. Oh, no. I wasn't making any statements about what you appear to be doing. I just wanted to understand what you were saying. A. I understand. Q. Let's turn to something else. This has been pre-marked as Rodden Exhibit 3. Do you recognize this? A. I do. Q. I believe earlier you testified that you had written something for the Washington Post about the St. Louis metro area. Is this what you were referring to? A. Yes. Q. Okay. I want to turn to Page 6. I'm sorry, and to be clear, this is for the Monkey Cage blog on the Washington Post, correct? A. Correct.	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	teachers unions in the Ferguson-Florissant school district benefit from off-cycle elections in the Ferguson-Florissant school district? A. I have not done analysis on union involvement in local elections in the Ferguson-Florissant school district. Q. So you don't have an opinion one way or another as to whether or not the teachers union in the Ferguson-Florissant school district benefits from the fact that elections are off-cycle? A. I don't. Q. Do you have any reason to think that the Ferguson-Florissant school district teachers union is different from other teachers unions, which I believe you testified, as a general matter you have seen the research, benefit from off-cycle elections? A. I don't have the counterfactual. I have not observed Ferguson-Florissant School Districts held inFerguson-Florissant school board elections held in November, so I cannot make the comparison. I can only tell you that a dissertation has been written in which
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	Rodden? A. That is correct. I would not refer intentionally to an an honest effort to abide by the Voting Rights Act, I would not refer to that as gerrymandering, and if I appear to have done so, it was inadvertent. Q. Oh, no. I wasn't making any statements about what you appear to be doing. I just wanted to understand what you were saying. A. I understand. Q. Let's turn to something else. This has been pre-marked as Rodden Exhibit 3. Do you recognize this? A. I do. Q. I believe earlier you testified that you had written something for the Washington Post about the St. Louis metro area. Is this what you were referring to? A. Yes. Q. Okay. I want to turn to Page 6. I'm sorry, and to be clear, this is for the Monkey Cage blog on the Washington Post, correct? A. Correct. Q. This didn't appear in print, correct?	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	teachers unions in the Ferguson-Florissant school district benefit from off-cycle elections in the Ferguson-Florissant school district? A. I have not done analysis on union involvement in local elections in the Ferguson-Florissant school district. Q. So you don't have an opinion one way or another as to whether or not the teachers union in the Ferguson-Florissant school district benefits from the fact that elections are off-cycle? A. I don't. Q. Do you have any reason to think that the Ferguson-Florissant school district teachers union is different from other teachers unions, which I believe you testified, as a general matter you have seen the research, benefit from off-cycle elections? A. I don't have the counterfactual. I have not observed Ferguson-Florissant School Districts held inFerguson-Florissant school board elections held in November, so I cannot make the comparison. I can only tell you that a dissertation has been written in which places that had off-cycle elections had higher teacher
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	Rodden? A. That is correct. I would not refer intentionally to an an honest effort to abide by the Voting Rights Act, I would not refer to that as gerrymandering, and if I appear to have done so, it was inadvertent. Q. Oh, no. I wasn't making any statements about what you appear to be doing. I just wanted to understand what you were saying. A. I understand. Q. Let's turn to something else. This has been pre-marked as Rodden Exhibit 3. Do you recognize this? A. I do. Q. I believe earlier you testified that you had written something for the Washington Post about the St. Louis metro area. Is this what you were referring to? A. Yes. Q. Okay. I want to turn to Page 6. I'm sorry, and to be clear, this is for the Monkey Cage blog on the Washington Post, correct? A. Correct. Q. This didn't appear in print, correct? A. Oh, I don't know. I don't have a subscription	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	teachers unions in the Ferguson-Florissant school district benefit from off-cycle elections in the Ferguson-Florissant school district? A. I have not done analysis on union involvement in local elections in the Ferguson-Florissant school district. Q. So you don't have an opinion one way or another as to whether or not the teachers union in the Ferguson-Florissant school district benefits from the fact that elections are off-cycle? A. I don't. Q. Do you have any reason to think that the Ferguson-Florissant school district teachers union is different from other teachers unions, which I believe you testified, as a general matter you have seen the research, benefit from off-cycle elections? A. I don't have the counterfactual. I have not observed Ferguson-Florissant School Districts held inFerguson-Florissant school board elections held in November, so I cannot make the comparison. I can only tell you that a dissertation has been written in which places that had off-cycle elections had higher teacher salaries and more generous pensions than places that had
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	Rodden? A. That is correct. I would not refer intentionally to an an honest effort to abide by the Voting Rights Act, I would not refer to that as gerrymandering, and if I appear to have done so, it was inadvertent. Q. Oh, no. I wasn't making any statements about what you appear to be doing. I just wanted to understand what you were saying. A. I understand. Q. Let's turn to something else. This has been pre-marked as Rodden Exhibit 3. Do you recognize this? A. I do. Q. I believe earlier you testified that you had written something for the Washington Post about the St. Louis metro area. Is this what you were referring to? A. Yes. Q. Okay. I want to turn to Page 6. I'm sorry, and to be clear, this is for the Monkey Cage blog on the Washington Post, correct? A. Correct. Q. This didn't appear in print, correct?	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	teachers unions in the Ferguson-Florissant school district benefit from off-cycle elections in the Ferguson-Florissant school district? A. I have not done analysis on union involvement in local elections in the Ferguson-Florissant school district. Q. So you don't have an opinion one way or another as to whether or not the teachers union in the Ferguson-Florissant school district benefits from the fact that elections are off-cycle? A. I don't. Q. Do you have any reason to think that the Ferguson-Florissant school district teachers union is different from other teachers unions, which I believe you testified, as a general matter you have seen the research, benefit from off-cycle elections? A. I don't have the counterfactual. I have not observed Ferguson-Florissant School Districts held inFerguson-Florissant school board elections held in November, so I cannot make the comparison. I can only tell you that a dissertation has been written in which places that had off-cycle elections had higher teacher

	Page 37		Page 39
1	Whether that finding is externally valid	1	problem is even worse in some of the communities
2	sufficiently so that it is also true of every school	2	surrounding Ferguson."
3	district in the United States, I do not know. And so	3	Did I read that correctly?
4	whether I can say specifically that that research applies	4	A. Yes.
5	in this context, whether there is some unknown factor in	5	Q. So your understanding is that the racial
6	that research that makes it only work in certain districts	6	composition of the Ferguson area has changed since the
7	and not others, that I do not know.	7	1980s; is that correct?
8	Q. Okay. The next sentence in your blog post	8	A. Yes.
9	here reads, "Historically, off-cycle elections have been a	9	Q. And in particular, it's become more
10	favored strategy of established ethnic groups in American	10	African-American; is that correct?
11	cities who wish to keep immigrants and minorities out of	11	A. That is correct.
12	power. In North St. Louis County the most organized	12	Q. And in your opinion as a political scientist,
13	groups are white homeowners who have been in the same	13	that change in the racial composition of Ferguson since
14	neighborhood since the 1970s, along with police officers	14	the 1980s in terms of becoming more African-American, that
15	and municipal employees who benefit from the status quo	15	has not been reflected in the diversity of municipal
16	and they have been able to dominate local elections."	16	government in the Ferguson area, correct?
17	Did I read what you wrote correctly?	17	A. That is correct.
18	A. Yes.	18	Q. And you describe in your blog post this
19	Q. Now, in your opinion as a political scientist,	19	mismatch between the composition of the population and the
20	off-cycle elections have historically been used to keep	20	municipal government in the Ferguson area as a "problem",
21	minorities out of power?	21	correct?
22	A. This is also something that arises from the	22	A. That's correct.
23	same research which also had a historical component, and	23	Q. Okay.
24	there was some analysis, not of St. Louis in particular,	24	A. It is a problem that I care deeply about.
25	but some old eastern cities that suggested this was the	25	Q. Okay. The last sentence in the third
	Page 38		Page 40
	1 4 5 0		Page 40
1	case.	1	paragraph notes, "Six out of the seven members of the
1 2	-	1 2	•
	case.		paragraph notes, "Six out of the seven members of the
2	case. Q. And when you say this was the case, you mean	2	paragraph notes, "Six out of the seven members of the board of overwhelmingly black Ferguson-Florissant school
2	case. Q. And when you say this was the case, you mean that off-cycle elections have historically been used to	2	paragraph notes, "Six out of the seven members of the board of overwhelmingly black Ferguson-Florissant school district are white."
2 3 4	case. Q. And when you say this was the case, you mean that off-cycle elections have historically been used to keep minorities out of power, correct?	2 3 4	paragraph notes, "Six out of the seven members of the board of overwhelmingly black Ferguson-Florissant school district are white." Did I read what you wrote accurately?
2 3 4 5	case. Q. And when you say this was the case, you mean that off-cycle elections have historically been used to keep minorities out of power, correct? A. That is what emerges from that research, yes.	2 3 4 5	paragraph notes, "Six out of the seven members of the board of overwhelmingly black Ferguson-Florissant school district are white." Did I read what you wrote accurately? A. Yes. That was the case at the time.
2 3 4 5 6	case. Q. And when you say this was the case, you mean that off-cycle elections have historically been used to keep minorities out of power, correct? A. That is what emerges from that research, yes. Q. And you don't have any reason to dispute that	2 3 4 5 6 7 8	paragraph notes, "Six out of the seven members of the board of overwhelmingly black Ferguson-Florissant school district are white." Did I read what you wrote accurately? A. Yes. That was the case at the time. Q. And the student body of the
2 3 4 5 6 7	case. Q. And when you say this was the case, you mean that off-cycle elections have historically been used to keep minorities out of power, correct? A. That is what emerges from that research, yes. Q. And you don't have any reason to dispute that research, correct?	2 3 4 5 6 7	paragraph notes, "Six out of the seven members of the board of overwhelmingly black Ferguson-Florissant school district are white." Did I read what you wrote accurately? A. Yes. That was the case at the time. Q. And the student body of the Ferguson-Florissant school district is, in your words,
2 3 4 5 6 7 8 9	case. Q. And when you say this was the case, you mean that off-cycle elections have historically been used to keep minorities out of power, correct? A. That is what emerges from that research, yes. Q. And you don't have any reason to dispute that research, correct? A. That's correct.	2 3 4 5 6 7 8 9	paragraph notes, "Six out of the seven members of the board of overwhelmingly black Ferguson-Florissant school district are white." Did I read what you wrote accurately? A. Yes. That was the case at the time. Q. And the student body of the Ferguson-Florissant school district is, in your words, overwhelmingly black, correct? A. The registered student body, I believe, is comfortable majority African-American, and the population
2 3 4 5 6 7 8 9 10	case. Q. And when you say this was the case, you mean that off-cycle elections have historically been used to keep minorities out of power, correct? A. That is what emerges from that research, yes. Q. And you don't have any reason to dispute that research, correct? A. That's correct. Q. And specifically you opine here that white homeowners and municipal employees have been able to dominate local elections in North County, correct?	2 3 4 5 6 7 8 9 10	paragraph notes, "Six out of the seven members of the board of overwhelmingly black Ferguson-Florissant school district are white." Did I read what you wrote accurately? A. Yes. That was the case at the time. Q. And the student body of the Ferguson-Florissant school district is, in your words, overwhelmingly black, correct? A. The registered student body, I believe, is comfortable majority African-American, and the population of the district is majority African-American.
2 3 4 5 6 7 8 9 10 11	Q. And when you say this was the case, you mean that off-cycle elections have historically been used to keep minorities out of power, correct? A. That is what emerges from that research, yes. Q. And you don't have any reason to dispute that research, correct? A. That's correct. Q. And specifically you opine here that white homeowners and municipal employees have been able to dominate local elections in North County, correct? A. That was my impression, yes.	2 3 4 5 6 7 8 9 10 11	paragraph notes, "Six out of the seven members of the board of overwhelmingly black Ferguson-Florissant school district are white." Did I read what you wrote accurately? A. Yes. That was the case at the time. Q. And the student body of the Ferguson-Florissant school district is, in your words, overwhelmingly black, correct? A. The registered student body, I believe, is comfortable majority African-American, and the population of the district is majority African-American. Q. Now, one example in which the local government
2 3 4 5 6 7 8 9 10 11 12 13	Case. Q. And when you say this was the case, you mean that off-cycle elections have historically been used to keep minorities out of power, correct? A. That is what emerges from that research, yes. Q. And you don't have any reason to dispute that research, correct? A. That's correct. Q. And specifically you opine here that white homeowners and municipal employees have been able to dominate local elections in North County, correct? A. That was my impression, yes. Q. Okay. And Ferguson-Florissant school district	2 3 4 5 6 7 8 9 10 11 12 13	paragraph notes, "Six out of the seven members of the board of overwhelmingly black Ferguson-Florissant school district are white." Did I read what you wrote accurately? A. Yes. That was the case at the time. Q. And the student body of the Ferguson-Florissant school district is, in your words, overwhelmingly black, correct? A. The registered student body, I believe, is comfortable majority African-American, and the population of the district is majority African-American. Q. Now, one example in which the local government does not reflect the diversity of the community, that
2 3 4 5 6 7 8 9 10 11 12 13	Case. Q. And when you say this was the case, you mean that off-cycle elections have historically been used to keep minorities out of power, correct? A. That is what emerges from that research, yes. Q. And you don't have any reason to dispute that research, correct? A. That's correct. Q. And specifically you opine here that white homeowners and municipal employees have been able to dominate local elections in North County, correct? A. That was my impression, yes. Q. Okay. And Ferguson-Florissant school district is in North County, correct?	2 3 4 5 6 7 8 9 10 11 12 13	paragraph notes, "Six out of the seven members of the board of overwhelmingly black Ferguson-Florissant school district are white." Did I read what you wrote accurately? A. Yes. That was the case at the time. Q. And the student body of the Ferguson-Florissant school district is, in your words, overwhelmingly black, correct? A. The registered student body, I believe, is comfortable majority African-American, and the population of the district is majority African-American. Q. Now, one example in which the local government does not reflect the diversity of the community, that problem that you were referring to earlier, one
2 3 4 5 6 7 8 9 10 11 12 13 14 15	Case. Q. And when you say this was the case, you mean that off-cycle elections have historically been used to keep minorities out of power, correct? A. That is what emerges from that research, yes. Q. And you don't have any reason to dispute that research, correct? A. That's correct. Q. And specifically you opine here that white homeowners and municipal employees have been able to dominate local elections in North County, correct? A. That was my impression, yes. Q. Okay. And Ferguson-Florissant school district is in North County, correct? A. Yes.	2 3 4 5 6 7 8 9 10 11 12 13 14	paragraph notes, "Six out of the seven members of the board of overwhelmingly black Ferguson-Florissant school district are white." Did I read what you wrote accurately? A. Yes. That was the case at the time. Q. And the student body of the Ferguson-Florissant school district is, in your words, overwhelmingly black, correct? A. The registered student body, I believe, is comfortable majority African-American, and the population of the district is majority African-American. Q. Now, one example in which the local government does not reflect the diversity of the community, that problem that you were referring to earlier, one manifestation of that or example of that is that at the
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	Case. Q. And when you say this was the case, you mean that off-cycle elections have historically been used to keep minorities out of power, correct? A. That is what emerges from that research, yes. Q. And you don't have any reason to dispute that research, correct? A. That's correct. Q. And specifically you opine here that white homeowners and municipal employees have been able to dominate local elections in North County, correct? A. That was my impression, yes. Q. Okay. And Ferguson-Florissant school district is in North County, correct? A. Yes. Q. Can we look up to the second paragraph on this	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	paragraph notes, "Six out of the seven members of the board of overwhelmingly black Ferguson-Florissant school district are white." Did I read what you wrote accurately? A. Yes. That was the case at the time. Q. And the student body of the Ferguson-Florissant school district is, in your words, overwhelmingly black, correct? A. The registered student body, I believe, is comfortable majority African-American, and the population of the district is majority African-American. Q. Now, one example in which the local government does not reflect the diversity of the community, that problem that you were referring to earlier, one manifestation of that or example of that is that at the time that you wrote this, six out of seven members of the
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	Q. And when you say this was the case, you mean that off-cycle elections have historically been used to keep minorities out of power, correct? A. That is what emerges from that research, yes. Q. And you don't have any reason to dispute that research, correct? A. That's correct. Q. And specifically you opine here that white homeowners and municipal employees have been able to dominate local elections in North County, correct? A. That was my impression, yes. Q. Okay. And Ferguson-Florissant school district is in North County, correct? A. Yes. Q. Can we look up to the second paragraph on this page where you write same page.	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	paragraph notes, "Six out of the seven members of the board of overwhelmingly black Ferguson-Florissant school district are white." Did I read what you wrote accurately? A. Yes. That was the case at the time. Q. And the student body of the Ferguson-Florissant school district is, in your words, overwhelmingly black, correct? A. The registered student body, I believe, is comfortable majority African-American, and the population of the district is majority African-American. Q. Now, one example in which the local government does not reflect the diversity of the community, that problem that you were referring to earlier, one manifestation of that or example of that is that at the time that you wrote this, six out of seven members of the Ferguson-Florissant school board were white, correct?
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	Case. Q. And when you say this was the case, you mean that off-cycle elections have historically been used to keep minorities out of power, correct? A. That is what emerges from that research, yes. Q. And you don't have any reason to dispute that research, correct? A. That's correct. Q. And specifically you opine here that white homeowners and municipal employees have been able to dominate local elections in North County, correct? A. That was my impression, yes. Q. Okay. And Ferguson-Florissant school district is in North County, correct? A. Yes. Q. Can we look up to the second paragraph on this page where you write same page. A. Oh, sorry.	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	paragraph notes, "Six out of the seven members of the board of overwhelmingly black Ferguson-Florissant school district are white." Did I read what you wrote accurately? A. Yes. That was the case at the time. Q. And the student body of the Ferguson-Florissant school district is, in your words, overwhelmingly black, correct? A. The registered student body, I believe, is comfortable majority African-American, and the population of the district is majority African-American. Q. Now, one example in which the local government does not reflect the diversity of the community, that problem that you were referring to earlier, one manifestation of that or example of that is that at the time that you wrote this, six out of seven members of the Ferguson-Florissant school board were white, correct? A. Yes.
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	Case. Q. And when you say this was the case, you mean that off-cycle elections have historically been used to keep minorities out of power, correct? A. That is what emerges from that research, yes. Q. And you don't have any reason to dispute that research, correct? A. That's correct. Q. And specifically you opine here that white homeowners and municipal employees have been able to dominate local elections in North County, correct? A. That was my impression, yes. Q. Okay. And Ferguson-Florissant school district is in North County, correct? A. Yes. Q. Can we look up to the second paragraph on this page where you write same page. A. Oh, sorry. Q. Stay on Page 6. In the second paragraph here	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	paragraph notes, "Six out of the seven members of the board of overwhelmingly black Ferguson-Florissant school district are white." Did I read what you wrote accurately? A. Yes. That was the case at the time. Q. And the student body of the Ferguson-Florissant school district is, in your words, overwhelmingly black, correct? A. The registered student body, I believe, is comfortable majority African-American, and the population of the district is majority African-American. Q. Now, one example in which the local government does not reflect the diversity of the community, that problem that you were referring to earlier, one manifestation of that or example of that is that at the time that you wrote this, six out of seven members of the Ferguson-Florissant school board were white, correct? A. Yes. Q. And today it's five out of seven members of
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	Q. And when you say this was the case, you mean that off-cycle elections have historically been used to keep minorities out of power, correct? A. That is what emerges from that research, yes. Q. And you don't have any reason to dispute that research, correct? A. That's correct. Q. And specifically you opine here that white homeowners and municipal employees have been able to dominate local elections in North County, correct? A. That was my impression, yes. Q. Okay. And Ferguson-Florissant school district is in North County, correct? A. Yes. Q. Can we look up to the second paragraph on this page where you write same page. A. Oh, sorry. Q. Stay on Page 6. In the second paragraph here you write, "The immediate problem in Ferguson is neither	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	paragraph notes, "Six out of the seven members of the board of overwhelmingly black Ferguson-Florissant school district are white." Did I read what you wrote accurately? A. Yes. That was the case at the time. Q. And the student body of the Ferguson-Florissant school district is, in your words, overwhelmingly black, correct? A. The registered student body, I believe, is comfortable majority African-American, and the population of the district is majority African-American. Q. Now, one example in which the local government does not reflect the diversity of the community, that problem that you were referring to earlier, one manifestation of that or example of that is that at the time that you wrote this, six out of seven members of the Ferguson-Florissant school board were white, correct? A. Yes. Q. And today it's five out of seven members of the Ferguson-Florissant school board that are white,
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	Case. Q. And when you say this was the case, you mean that off-cycle elections have historically been used to keep minorities out of power, correct? A. That is what emerges from that research, yes. Q. And you don't have any reason to dispute that research, correct? A. That's correct. Q. And specifically you opine here that white homeowners and municipal employees have been able to dominate local elections in North County, correct? A. That was my impression, yes. Q. Okay. And Ferguson-Florissant school district is in North County, correct? A. Yes. Q. Can we look up to the second paragraph on this page where you write same page. A. Oh, sorry. Q. Stay on Page 6. In the second paragraph here you write, "The immediate problem in Ferguson is neither residential segregation nor its demise. Rather, as many	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	paragraph notes, "Six out of the seven members of the board of overwhelmingly black Ferguson-Florissant school district are white." Did I read what you wrote accurately? A. Yes. That was the case at the time. Q. And the student body of the Ferguson-Florissant school district is, in your words, overwhelmingly black, correct? A. The registered student body, I believe, is comfortable majority African-American, and the population of the district is majority African-American. Q. Now, one example in which the local government does not reflect the diversity of the community, that problem that you were referring to earlier, one manifestation of that or example of that is that at the time that you wrote this, six out of seven members of the Ferguson-Florissant school board were white, correct? A. Yes. Q. And today it's five out of seven members of the Ferguson-Florissant school board that are white, correct?
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	Case. Q. And when you say this was the case, you mean that off-cycle elections have historically been used to keep minorities out of power, correct? A. That is what emerges from that research, yes. Q. And you don't have any reason to dispute that research, correct? A. That's correct. Q. And specifically you opine here that white homeowners and municipal employees have been able to dominate local elections in North County, correct? A. That was my impression, yes. Q. Okay. And Ferguson-Florissant school district is in North County, correct? A. Yes. Q. Can we look up to the second paragraph on this page where you write same page. A. Oh, sorry. Q. Stay on Page 6. In the second paragraph here you write, "The immediate problem in Ferguson is neither residential segregation nor its demise. Rather, as many have pointed out, it is that the racial integration of the	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	paragraph notes, "Six out of the seven members of the board of overwhelmingly black Ferguson-Florissant school district are white." Did I read what you wrote accurately? A. Yes. That was the case at the time. Q. And the student body of the Ferguson-Florissant school district is, in your words, overwhelmingly black, correct? A. The registered student body, I believe, is comfortable majority African-American, and the population of the district is majority African-American. Q. Now, one example in which the local government does not reflect the diversity of the community, that problem that you were referring to earlier, one manifestation of that or example of that is that at the time that you wrote this, six out of seven members of the Ferguson-Florissant school board were white, correct? A. Yes. Q. And today it's five out of seven members of the Ferguson-Florissant school board that are white, correct? A. That's correct.
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	Case. Q. And when you say this was the case, you mean that off-cycle elections have historically been used to keep minorities out of power, correct? A. That is what emerges from that research, yes. Q. And you don't have any reason to dispute that research, correct? A. That's correct. Q. And specifically you opine here that white homeowners and municipal employees have been able to dominate local elections in North County, correct? A. That was my impression, yes. Q. Okay. And Ferguson-Florissant school district is in North County, correct? A. Yes. Q. Can we look up to the second paragraph on this page where you write same page. A. Oh, sorry. Q. Stay on Page 6. In the second paragraph here you write, "The immediate problem in Ferguson is neither residential segregation nor its demise. Rather, as many have pointed out, it is that the racial integration of the community has not been reflected in the municipal	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	paragraph notes, "Six out of the seven members of the board of overwhelmingly black Ferguson-Florissant school district are white." Did I read what you wrote accurately? A. Yes. That was the case at the time. Q. And the student body of the Ferguson-Florissant school district is, in your words, overwhelmingly black, correct? A. The registered student body, I believe, is comfortable majority African-American, and the population of the district is majority African-American. Q. Now, one example in which the local government does not reflect the diversity of the community, that problem that you were referring to earlier, one manifestation of that or example of that is that at the time that you wrote this, six out of seven members of the Ferguson-Florissant school board were white, correct? A. Yes. Q. And today it's five out of seven members of the Ferguson-Florissant school board that are white, correct? A. That's correct. Q. Okay. Can we turn to Page 1 in your blog
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	Case. Q. And when you say this was the case, you mean that off-cycle elections have historically been used to keep minorities out of power, correct? A. That is what emerges from that research, yes. Q. And you don't have any reason to dispute that research, correct? A. That's correct. Q. And specifically you opine here that white homeowners and municipal employees have been able to dominate local elections in North County, correct? A. That was my impression, yes. Q. Okay. And Ferguson-Florissant school district is in North County, correct? A. Yes. Q. Can we look up to the second paragraph on this page where you write same page. A. Oh, sorry. Q. Stay on Page 6. In the second paragraph here you write, "The immediate problem in Ferguson is neither residential segregation nor its demise. Rather, as many have pointed out, it is that the racial integration of the	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	paragraph notes, "Six out of the seven members of the board of overwhelmingly black Ferguson-Florissant school district are white." Did I read what you wrote accurately? A. Yes. That was the case at the time. Q. And the student body of the Ferguson-Florissant school district is, in your words, overwhelmingly black, correct? A. The registered student body, I believe, is comfortable majority African-American, and the population of the district is majority African-American. Q. Now, one example in which the local government does not reflect the diversity of the community, that problem that you were referring to earlier, one manifestation of that or example of that is that at the time that you wrote this, six out of seven members of the Ferguson-Florissant school board were white, correct? A. Yes. Q. And today it's five out of seven members of the Ferguson-Florissant school board that are white, correct? A. That's correct.

	Page 41		Page 43
	•		_
1	on a common, well-rehearsed narrative about segregation in	1	A. Yes.
2	St. Louis that goes back to the 19th century: Whites will	2	Q. And do you agree that that past history of
3	do whatever it takes to prevent blacks from moving into	3	intimidation and violence in the St. Louis area continues
4	their neighborhoods, including redlining, restrictive	4	to play a role in socioeconomic life in St. Louis?
5	covenants, large lot zoning, intimidation and violence.	5	A. Yes.
6	When these ultimately fail, whites build a new" sorry	6	Q. What do you mean in the first sentence here
7	"whites build new interstates and move in mass to the	7	when you say that the narrative about segregation in St.
8	next ring of undeveloped farm land, leaving behind	8	Louis is well rehearsed?
9	destitute neighborhoods with no investment or	9	A. There have been a number of articles in the
10	opportunity."	10	popular press, a large number of articles in the popular
11	Did I read what you wrote correctly?	11	press, laying out this narrative. I meant it is well
12	A. Yes.	12	rehearsed in that aspects of it are repeated over and over
13	Q. Now, you were, in this blog post, attempting	13	again and there are a number of authors who kind of cite
14	to dispute that narrative, correct?	14	one another and have gotten into a gotten into kind of
15	A. Indeed.	15	a groove of saying these things and then drawing very
16	Q. Now, is it your opinion that discriminatory	16	broad conclusions about not only North St. Louis County,
17	redlining has not been an issue in the St. Louis area?	17	but about American suburbs in general.
18	A. That is not my opinion.	18	And one of the things I'm trying to
19	Q. Is it your view that the effects of past	19	understand, and the direction in which my research has
20	discriminatory redlining no longer play a role in	20	gone, is trying to understand the process of
21	socioeconomic life in the St. Louis area?	21	suburbanization, and what I've been learning is it's much
22	A. No, that is not my opinion.	22	more complex than what this narrative suggests. And the
23	Q. Is it your opinion that restrictive covenants	23	narrative is one that people have stopped questioning, and
24	against black home ownership have not been an issue in the	24	I believe some aspects of that narrative need to be
25	St. Louis area?	25	questioned, because in many American cities the
	Page 42		Page 44
1	-	1	-
1 2	A. No.	1 2	African-American middle class has suburbanized and much of
2	A. No. Q. Okay. So you agree that restrictive covenants	2	African-American middle class has suburbanized and much of that suburbanization has been a middle class movement, and
2	A. No. Q. Okay. So you agree that restrictive covenants against black home ownership have been an issue in the St.	2 3	African-American middle class has suburbanized and much of that suburbanization has been a middle class movement, and the characterization here is that the desegregation of
2 3 4	A. No. Q. Okay. So you agree that restrictive covenants against black home ownership have been an issue in the St. Louis area?	2 3 4	African-American middle class has suburbanized and much of that suburbanization has been a middle class movement, and the characterization here is that the desegregation of suburbia is primarily a desegregation that involves the
2 3 4 5	A. No. Q. Okay. So you agree that restrictive covenants against black home ownership have been an issue in the St. Louis area? A. Yes.	2 3 4 5	African-American middle class has suburbanized and much of that suburbanization has been a middle class movement, and the characterization here is that the desegregation of suburbia is primarily a desegregation that involves the movement of impoverished people from city centers to the
2 3 4 5 6	A. No. Q. Okay. So you agree that restrictive covenants against black home ownership have been an issue in the St. Louis area? A. Yes. Q. And you agree that the effects of past	2 3 4 5 6	African-American middle class has suburbanized and much of that suburbanization has been a middle class movement, and the characterization here is that the desegregation of suburbia is primarily a desegregation that involves the movement of impoverished people from city centers to the suburbs. And it is the case that poverty has increased in
2 3 4 5	A. No. Q. Okay. So you agree that restrictive covenants against black home ownership have been an issue in the St. Louis area? A. Yes. Q. And you agree that the effects of past restrictive covenants prohibiting black ownership continue	2 3 4 5 6 7	African-American middle class has suburbanized and much of that suburbanization has been a middle class movement, and the characterization here is that the desegregation of suburbia is primarily a desegregation that involves the movement of impoverished people from city centers to the suburbs. And it is the case that poverty has increased in inner ring and middle ring suburbs, but what is also the
2 3 4 5 6 7 8	A. No. Q. Okay. So you agree that restrictive covenants against black home ownership have been an issue in the St. Louis area? A. Yes. Q. And you agree that the effects of past restrictive covenants prohibiting black ownership continue to play a role in socioeconomic life in the St. Louis	2 3 4 5 6 7 8	African-American middle class has suburbanized and much of that suburbanization has been a middle class movement, and the characterization here is that the desegregation of suburbia is primarily a desegregation that involves the movement of impoverished people from city centers to the suburbs. And it is the case that poverty has increased in inner ring and middle ring suburbs, but what is also the case, and which is much more overwhelming in the numbers,
2 3 4 5 6 7 8 9	A. No. Q. Okay. So you agree that restrictive covenants against black home ownership have been an issue in the St. Louis area? A. Yes. Q. And you agree that the effects of past restrictive covenants prohibiting black ownership continue to play a role in socioeconomic life in the St. Louis area?	2 3 4 5 6 7 8	African-American middle class has suburbanized and much of that suburbanization has been a middle class movement, and the characterization here is that the desegregation of suburbia is primarily a desegregation that involves the movement of impoverished people from city centers to the suburbs. And it is the case that poverty has increased in inner ring and middle ring suburbs, but what is also the case, and which is much more overwhelming in the numbers, is that African-American middle class people have moved to
2 3 4 5 6 7 8 9	A. No. Q. Okay. So you agree that restrictive covenants against black home ownership have been an issue in the St. Louis area? A. Yes. Q. And you agree that the effects of past restrictive covenants prohibiting black ownership continue to play a role in socioeconomic life in the St. Louis area? A. Yes.	2 3 4 5 6 7 8 9	African-American middle class has suburbanized and much of that suburbanization has been a middle class movement, and the characterization here is that the desegregation of suburbia is primarily a desegregation that involves the movement of impoverished people from city centers to the suburbs. And it is the case that poverty has increased in inner ring and middle ring suburbs, but what is also the case, and which is much more overwhelming in the numbers, is that African-American middle class people have moved to suburbs and have become homeowners; not nearly in numbers
2 3 4 5 6 7 8 9 10	A. No. Q. Okay. So you agree that restrictive covenants against black home ownership have been an issue in the St. Louis area? A. Yes. Q. And you agree that the effects of past restrictive covenants prohibiting black ownership continue to play a role in socioeconomic life in the St. Louis area? A. Yes. Q. You also agree that large lot zoning has been	2 3 4 5 6 7 8 9 10	African-American middle class has suburbanized and much of that suburbanization has been a middle class movement, and the characterization here is that the desegregation of suburbia is primarily a desegregation that involves the movement of impoverished people from city centers to the suburbs. And it is the case that poverty has increased in inner ring and middle ring suburbs, but what is also the case, and which is much more overwhelming in the numbers, is that African-American middle class people have moved to suburbs and have become homeowners; not nearly in numbers that one might prefer, but within every U.S. metro area
2 3 4 5 6 7 8 9 10 11	A. No. Q. Okay. So you agree that restrictive covenants against black home ownership have been an issue in the St. Louis area? A. Yes. Q. And you agree that the effects of past restrictive covenants prohibiting black ownership continue to play a role in socioeconomic life in the St. Louis area? A. Yes. Q. You also agree that large lot zoning has been an issue in the St. Louis area, correct?	2 3 4 5 6 7 8 9 10 11	African-American middle class has suburbanized and much of that suburbanization has been a middle class movement, and the characterization here is that the desegregation of suburbia is primarily a desegregation that involves the movement of impoverished people from city centers to the suburbs. And it is the case that poverty has increased in inner ring and middle ring suburbs, but what is also the case, and which is much more overwhelming in the numbers, is that African-American middle class people have moved to suburbs and have become homeowners; not nearly in numbers that one might prefer, but within every U.S. metro area there has been a substantial suburbanization of the
2 3 4 5 6 7 8 9 10 11 12	A. No. Q. Okay. So you agree that restrictive covenants against black home ownership have been an issue in the St. Louis area? A. Yes. Q. And you agree that the effects of past restrictive covenants prohibiting black ownership continue to play a role in socioeconomic life in the St. Louis area? A. Yes. Q. You also agree that large lot zoning has been an issue in the St. Louis area, correct? A. Yes.	2 3 4 5 6 7 8 9 10 11 12 13	African-American middle class has suburbanized and much of that suburbanization has been a middle class movement, and the characterization here is that the desegregation of suburbia is primarily a desegregation that involves the movement of impoverished people from city centers to the suburbs. And it is the case that poverty has increased in inner ring and middle ring suburbs, but what is also the case, and which is much more overwhelming in the numbers, is that African-American middle class people have moved to suburbs and have become homeowners; not nearly in numbers that one might prefer, but within every U.S. metro area there has been a substantial suburbanization of the African-American middle class.
2 3 4 5 6 7 8 9 10 11 12 13	A. No. Q. Okay. So you agree that restrictive covenants against black home ownership have been an issue in the St. Louis area? A. Yes. Q. And you agree that the effects of past restrictive covenants prohibiting black ownership continue to play a role in socioeconomic life in the St. Louis area? A. Yes. Q. You also agree that large lot zoning has been an issue in the St. Louis area, correct? A. Yes. Q. And you agree that past large lot zoning	2 3 4 5 6 7 8 9 10 11 12 13	African-American middle class has suburbanized and much of that suburbanization has been a middle class movement, and the characterization here is that the desegregation of suburbia is primarily a desegregation that involves the movement of impoverished people from city centers to the suburbs. And it is the case that poverty has increased in inner ring and middle ring suburbs, but what is also the case, and which is much more overwhelming in the numbers, is that African-American middle class people have moved to suburbs and have become homeowners; not nearly in numbers that one might prefer, but within every U.S. metro area there has been a substantial suburbanization of the African-American middle class. There has been a substantial desegregation of
2 3 4 5 6 7 8 9 10 11 12 13 14	A. No. Q. Okay. So you agree that restrictive covenants against black home ownership have been an issue in the St. Louis area? A. Yes. Q. And you agree that the effects of past restrictive covenants prohibiting black ownership continue to play a role in socioeconomic life in the St. Louis area? A. Yes. Q. You also agree that large lot zoning has been an issue in the St. Louis area, correct? A. Yes. Q. And you agree that past large lot zoning continues to play a role in socioeconomic life in the St.	2 3 4 5 6 7 8 9 10 11 12 13 14	African-American middle class has suburbanized and much of that suburbanization has been a middle class movement, and the characterization here is that the desegregation of suburbia is primarily a desegregation that involves the movement of impoverished people from city centers to the suburbs. And it is the case that poverty has increased in inner ring and middle ring suburbs, but what is also the case, and which is much more overwhelming in the numbers, is that African-American middle class people have moved to suburbs and have become homeowners; not nearly in numbers that one might prefer, but within every U.S. metro area there has been a substantial suburbanization of the African-American middle class. There has been a substantial desegregation of the population. United States is far less residentially
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	A. No. Q. Okay. So you agree that restrictive covenants against black home ownership have been an issue in the St. Louis area? A. Yes. Q. And you agree that the effects of past restrictive covenants prohibiting black ownership continue to play a role in socioeconomic life in the St. Louis area? A. Yes. Q. You also agree that large lot zoning has been an issue in the St. Louis area, correct? A. Yes. Q. And you agree that past large lot zoning continues to play a role in socioeconomic life in the St. Louis area, correct?	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	African-American middle class has suburbanized and much of that suburbanization has been a middle class movement, and the characterization here is that the desegregation of suburbia is primarily a desegregation that involves the movement of impoverished people from city centers to the suburbs. And it is the case that poverty has increased in inner ring and middle ring suburbs, but what is also the case, and which is much more overwhelming in the numbers, is that African-American middle class people have moved to suburbs and have become homeowners; not nearly in numbers that one might prefer, but within every U.S. metro area there has been a substantial suburbanization of the African-American middle class. There has been a substantial desegregation of the population. United States is far less residentially segregated than it was in the 2000 census, and that was a
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	A. No. Q. Okay. So you agree that restrictive covenants against black home ownership have been an issue in the St. Louis area? A. Yes. Q. And you agree that the effects of past restrictive covenants prohibiting black ownership continue to play a role in socioeconomic life in the St. Louis area? A. Yes. Q. You also agree that large lot zoning has been an issue in the St. Louis area, correct? A. Yes. Q. And you agree that past large lot zoning continues to play a role in socioeconomic life in the St. Louis area, correct? A. Sorry. Say that one again. I'm sorry. I was	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	African-American middle class has suburbanized and much of that suburbanization has been a middle class movement, and the characterization here is that the desegregation of suburbia is primarily a desegregation that involves the movement of impoverished people from city centers to the suburbs. And it is the case that poverty has increased in inner ring and middle ring suburbs, but what is also the case, and which is much more overwhelming in the numbers, is that African-American middle class people have moved to suburbs and have become homeowners; not nearly in numbers that one might prefer, but within every U.S. metro area there has been a substantial suburbanization of the African-American middle class. There has been a substantial desegregation of the population. United States is far less residentially segregated than it was in the 2000 census, and that was a far less segregated population than in the 1990 census.
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	A. No. Q. Okay. So you agree that restrictive covenants against black home ownership have been an issue in the St. Louis area? A. Yes. Q. And you agree that the effects of past restrictive covenants prohibiting black ownership continue to play a role in socioeconomic life in the St. Louis area? A. Yes. Q. You also agree that large lot zoning has been an issue in the St. Louis area, correct? A. Yes. Q. And you agree that past large lot zoning continues to play a role in socioeconomic life in the St. Louis area, correct? A. Sorry. Say that one again. I'm sorry. I was still thinking about the previous one.	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	African-American middle class has suburbanized and much of that suburbanization has been a middle class movement, and the characterization here is that the desegregation of suburbia is primarily a desegregation that involves the movement of impoverished people from city centers to the suburbs. And it is the case that poverty has increased in inner ring and middle ring suburbs, but what is also the case, and which is much more overwhelming in the numbers, is that African-American middle class people have moved to suburbs and have become homeowners; not nearly in numbers that one might prefer, but within every U.S. metro area there has been a substantial suburbanization of the African-American middle class. There has been a substantial desegregation of the population. United States is far less residentially segregated than it was in the 2000 census, and that was a far less segregated population than in the 1990 census. So there is a move towards integration that we must try to
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	A. No. Q. Okay. So you agree that restrictive covenants against black home ownership have been an issue in the St. Louis area? A. Yes. Q. And you agree that the effects of past restrictive covenants prohibiting black ownership continue to play a role in socioeconomic life in the St. Louis area? A. Yes. Q. You also agree that large lot zoning has been an issue in the St. Louis area, correct? A. Yes. Q. And you agree that past large lot zoning continues to play a role in socioeconomic life in the St. Louis area, correct? A. Sorry. Say that one again. I'm sorry. I was still thinking about the previous one. Q. That's okay. You agree that large lot zoning	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	African-American middle class has suburbanized and much of that suburbanization has been a middle class movement, and the characterization here is that the desegregation of suburbia is primarily a desegregation that involves the movement of impoverished people from city centers to the suburbs. And it is the case that poverty has increased in inner ring and middle ring suburbs, but what is also the case, and which is much more overwhelming in the numbers, is that African-American middle class people have moved to suburbs and have become homeowners; not nearly in numbers that one might prefer, but within every U.S. metro area there has been a substantial suburbanization of the African-American middle class. There has been a substantial desegregation of the population. United States is far less residentially segregated than it was in the 2000 census, and that was a far less segregated population than in the 1990 census. So there is a move towards integration that we must try to understand, and I believed it was important that people
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	A. No. Q. Okay. So you agree that restrictive covenants against black home ownership have been an issue in the St. Louis area? A. Yes. Q. And you agree that the effects of past restrictive covenants prohibiting black ownership continue to play a role in socioeconomic life in the St. Louis area? A. Yes. Q. You also agree that large lot zoning has been an issue in the St. Louis area, correct? A. Yes. Q. And you agree that past large lot zoning continues to play a role in socioeconomic life in the St. Louis area, correct? A. Sorry. Say that one again. I'm sorry. I was still thinking about the previous one. Q. That's okay. You agree that large lot zoning practices continue to have an effect on socioeconomic life	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	African-American middle class has suburbanized and much of that suburbanization has been a middle class movement, and the characterization here is that the desegregation of suburbia is primarily a desegregation that involves the movement of impoverished people from city centers to the suburbs. And it is the case that poverty has increased in inner ring and middle ring suburbs, but what is also the case, and which is much more overwhelming in the numbers, is that African-American middle class people have moved to suburbs and have become homeowners; not nearly in numbers that one might prefer, but within every U.S. metro area there has been a substantial suburbanization of the African-American middle class. There has been a substantial desegregation of the population. United States is far less residentially segregated than it was in the 2000 census, and that was a far less segregated population than in the 1990 census. So there is a move towards integration that we must try to understand, and I believed it was important that people understand the reality in the North County area around
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	A. No. Q. Okay. So you agree that restrictive covenants against black home ownership have been an issue in the St. Louis area? A. Yes. Q. And you agree that the effects of past restrictive covenants prohibiting black ownership continue to play a role in socioeconomic life in the St. Louis area? A. Yes. Q. You also agree that large lot zoning has been an issue in the St. Louis area, correct? A. Yes. Q. And you agree that past large lot zoning continues to play a role in socioeconomic life in the St. Louis area, correct? A. Sorry. Say that one again. I'm sorry. I was still thinking about the previous one. Q. That's okay. You agree that large lot zoning practices continue to have an effect on socioeconomic life in the St. Louis area, correct?	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	African-American middle class has suburbanized and much of that suburbanization has been a middle class movement, and the characterization here is that the desegregation of suburbia is primarily a desegregation that involves the movement of impoverished people from city centers to the suburbs. And it is the case that poverty has increased in inner ring and middle ring suburbs, but what is also the case, and which is much more overwhelming in the numbers, is that African-American middle class people have moved to suburbs and have become homeowners; not nearly in numbers that one might prefer, but within every U.S. metro area there has been a substantial suburbanization of the African-American middle class. There has been a substantial desegregation of the population. United States is far less residentially segregated than it was in the 2000 census, and that was a far less segregated population than in the 1990 census. So there is a move towards integration that we must try to understand, and I believed it was important that people understand the reality in the North County area around Ferguson and Florissant, because if the rhetoric and the
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	A. No. Q. Okay. So you agree that restrictive covenants against black home ownership have been an issue in the St. Louis area? A. Yes. Q. And you agree that the effects of past restrictive covenants prohibiting black ownership continue to play a role in socioeconomic life in the St. Louis area? A. Yes. Q. You also agree that large lot zoning has been an issue in the St. Louis area, correct? A. Yes. Q. And you agree that past large lot zoning continues to play a role in socioeconomic life in the St. Louis area, correct? A. Sorry. Say that one again. I'm sorry. I was still thinking about the previous one. Q. That's okay. You agree that large lot zoning practices continue to have an effect on socioeconomic life in the St. Louis area, correct? A. Yes.	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	African-American middle class has suburbanized and much of that suburbanization has been a middle class movement, and the characterization here is that the desegregation of suburbia is primarily a desegregation that involves the movement of impoverished people from city centers to the suburbs. And it is the case that poverty has increased in inner ring and middle ring suburbs, but what is also the case, and which is much more overwhelming in the numbers, is that African-American middle class people have moved to suburbs and have become homeowners; not nearly in numbers that one might prefer, but within every U.S. metro area there has been a substantial suburbanization of the African-American middle class. There has been a substantial desegregation of the population. United States is far less residentially segregated than it was in the 2000 census, and that was a far less segregated population than in the 1990 census. So there is a move towards integration that we must try to understand, and I believed it was important that people understand the reality in the North County area around Ferguson and Florissant, because if the rhetoric and the narrative focuses exclusively on poverty and crime, when
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	A. No. Q. Okay. So you agree that restrictive covenants against black home ownership have been an issue in the St. Louis area? A. Yes. Q. And you agree that the effects of past restrictive covenants prohibiting black ownership continue to play a role in socioeconomic life in the St. Louis area? A. Yes. Q. You also agree that large lot zoning has been an issue in the St. Louis area, correct? A. Yes. Q. And you agree that past large lot zoning continues to play a role in socioeconomic life in the St. Louis area, correct? A. Sorry. Say that one again. I'm sorry. I was still thinking about the previous one. Q. That's okay. You agree that large lot zoning practices continue to have an effect on socioeconomic life in the St. Louis area, correct?	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	African-American middle class has suburbanized and much of that suburbanization has been a middle class movement, and the characterization here is that the desegregation of suburbia is primarily a desegregation that involves the movement of impoverished people from city centers to the suburbs. And it is the case that poverty has increased in inner ring and middle ring suburbs, but what is also the case, and which is much more overwhelming in the numbers, is that African-American middle class people have moved to suburbs and have become homeowners; not nearly in numbers that one might prefer, but within every U.S. metro area there has been a substantial suburbanization of the African-American middle class. There has been a substantial desegregation of the population. United States is far less residentially segregated than it was in the 2000 census, and that was a far less segregated population than in the 1990 census. So there is a move towards integration that we must try to understand, and I believed it was important that people understand the reality in the North County area around Ferguson and Florissant, because if the rhetoric and the

Fax: 314.644.1334

in crime, that the very phenomenon that well-meaning

Louis area?

	Page 45		Page 47
1	authors would like to put an end to, simply ends up being	1	hour. If you want to take a break, we can now.
2	sped up; that when suburban whites receive a message that	2	MS. ORMSBY: I'm good. Do you want to take a
3	suburbanization of the African-American population is	3	break?
4	equated with an increase in poverty and crime, it has	4	THE WITNESS: I'm happy to keep going. If
5	potential to speed up the process of white flight, and	5	it's a change in topics that is a good moment for a break,
6	that is the really the theme of this article, is that	6	that would be fine, too.
7	understanding the reality is important. Understanding not	7	MR. HO: Why don't we just keep going for a
8	a simple narrative about suburbanization, but	8	few more minutes.
9	understanding the facts about suburbanization, in	9	THE WITNESS: Okay.
10	particular in Ferguson-Florissant, is important. That's	10	Q. I'm going to show you what's been marked as
11	what really got me started on trying to understand those	11	Rodden Exhibit 4, Dr. Rodden. I believe this is the
12	facts, and those facts have made their way into my expert	12	initial expert report that you offered in this case; is
13	reports in this case.	13	that correct?
14	Q. You mentioned being focussed on the reality.	14	A. Yes.
15	You would agree, Dr. Rodden, that the reality is is that	15	Q. And it's dated May 7th, 2015; is that correct?
16	St. Louis remains among the most segregated metropolitan	16	A. Yes.
17	regions in the United States, correct?	17	Q. And you signed this, to the best of your
18	A. That is correct, and as I point out in the	18	knowledge, under oath, under penalty of perjury; is that
19	article, there are a few bright spots. There are a few	19	correct?
20	places that are desegregated, and one of those is the	20	A. Yes.
21	Ferguson-Florissant school district. And it's not	21	Q. Okay. Could you turn to Page 12 in your
22	desegregated by accident. It was desegregated by court	22	report, Dr. Rodden? I'm looking at the header on Page 12
23	order and that court order was successful.	23	that states, "An assessment of turnout by race in
24	Q. So just so I understand, it wasn't	24	Ferguson-Florissant school board elections." Now, in this
25	desegregated voluntarily, it was desegregated by force of	25	section of your report you're looking at comparative
	Page 46		Page 48
1	federal law, correct?	1	turnout rates by race within the Ferguson-Florissant
2	A. Several decades ago, yes.	2	school district, correct?
3	Q. Okay. Now, on Page 5 of your blog post, you	3	A. Make sure I remember what is in this section.
4	have, I believe, a chart correct me if I misunderstand	4	Q. Take your time.
5	this. It's a chart that compares relative levels of	5	A. You characterized it as comparative turnout
6	segregation of various cities within the St. Louis metro	6	rates by race. That's a fine summary, yes.
7	area; is that right?	7	
8		1	Q. Okay. And fair to say that in your opinion,
	A. Uh-huh. Yes.	8	Q. Okay. And fair to say that in your opinion, black and white turnout rates in Ferguson-Florissant
9	A. Uh-huh. Yes.Q. Now, in this chart you are purporting to show		
9 10		8 9 10	black and white turnout rates in Ferguson-Florissant school district for school board elections are relatively even?
10 11	Q. Now, in this chart you are purporting to show	8 9 10 11	black and white turnout rates in Ferguson-Florissant school district for school board elections are relatively even? A. Well, as I discovered, it varies from one
10 11 12	Q. Now, in this chart you are purporting to show that Ferguson is relatively less segregated than many	8 9 10 11 12	black and white turnout rates in Ferguson-Florissant school district for school board elections are relatively even? A. Well, as I discovered, it varies from one election to another.
10 11 12 13	 Q. Now, in this chart you are purporting to show that Ferguson is relatively less segregated than many or some other cities in the St. Louis area, correct? A. Yes. Q. Now, this chart does not include any 	8 9 10 11 12 13	black and white turnout rates in Ferguson-Florissant school district for school board elections are relatively even? A. Well, as I discovered, it varies from one election to another. Q. So that's not your opinion that turnout rates
10 11 12 13 14	 Q. Now, in this chart you are purporting to show that Ferguson is relatively less segregated than many or some other cities in the St. Louis area, correct? A. Yes. Q. Now, this chart does not include any comparison of Ferguson to areas outside of the St. Louis 	8 9 10 11 12 13 14	black and white turnout rates in Ferguson-Florissant school district for school board elections are relatively even? A. Well, as I discovered, it varies from one election to another. Q. So that's not your opinion that turnout rates between blacks and whites are relatively even in
10 11 12 13 14 15	 Q. Now, in this chart you are purporting to show that Ferguson is relatively less segregated than many or some other cities in the St. Louis area, correct? A. Yes. Q. Now, this chart does not include any comparison of Ferguson to areas outside of the St. Louis area in terms of its level of segregation, correct? 	8 9 10 11 12 13 14 15	black and white turnout rates in Ferguson-Florissant school district for school board elections are relatively even? A. Well, as I discovered, it varies from one election to another. Q. So that's not your opinion that turnout rates between blacks and whites are relatively even in Ferguson-Florissant school board elections?
10 11 12 13 14 15	 Q. Now, in this chart you are purporting to show that Ferguson is relatively less segregated than many or some other cities in the St. Louis area, correct? A. Yes. Q. Now, this chart does not include any comparison of Ferguson to areas outside of the St. Louis area in terms of its level of segregation, correct? A. Those areas you mean in Missouri or 	8 9 10 11 12 13 14 15 16	black and white turnout rates in Ferguson-Florissant school district for school board elections are relatively even? A. Well, as I discovered, it varies from one election to another. Q. So that's not your opinion that turnout rates between blacks and whites are relatively even in Ferguson-Florissant school board elections? A. In the most recent handful yeah, I think it
10 11 12 13 14 15 16 17	 Q. Now, in this chart you are purporting to show that Ferguson is relatively less segregated than many or some other cities in the St. Louis area, correct? A. Yes. Q. Now, this chart does not include any comparison of Ferguson to areas outside of the St. Louis area in terms of its level of segregation, correct? A. Those areas you mean in Missouri or Q. Just outside of the St. Louis metro area. 	8 9 10 11 12 13 14 15 16	black and white turnout rates in Ferguson-Florissant school district for school board elections are relatively even? A. Well, as I discovered, it varies from one election to another. Q. So that's not your opinion that turnout rates between blacks and whites are relatively even in Ferguson-Florissant school board elections? A. In the most recent handful yeah, I think it was my testimony is that the there's no significant
10 11 12 13 14 15 16 17	 Q. Now, in this chart you are purporting to show that Ferguson is relatively less segregated than many or some other cities in the St. Louis area, correct? A. Yes. Q. Now, this chart does not include any comparison of Ferguson to areas outside of the St. Louis area in terms of its level of segregation, correct? A. Those areas you mean in Missouri or Q. Just outside of the St. Louis metro area. A. No. This is a graph that is based on the St. 	8 9 10 11 12 13 14 15 16 17	black and white turnout rates in Ferguson-Florissant school district for school board elections are relatively even? A. Well, as I discovered, it varies from one election to another. Q. So that's not your opinion that turnout rates between blacks and whites are relatively even in Ferguson-Florissant school board elections? A. In the most recent handful yeah, I think it was my testimony is that the there's no significant difference between the rates in 2012, 13 and 14, and there
10 11 12 13 14 15 16 17 18	 Q. Now, in this chart you are purporting to show that Ferguson is relatively less segregated than many or some other cities in the St. Louis area, correct? A. Yes. Q. Now, this chart does not include any comparison of Ferguson to areas outside of the St. Louis area in terms of its level of segregation, correct? A. Those areas you mean in Missouri or Q. Just outside of the St. Louis metro area. A. No. This is a graph that is based on the St. Louis metro area. 	8 9 10 11 12 13 14 15 16 17 18	black and white turnout rates in Ferguson-Florissant school district for school board elections are relatively even? A. Well, as I discovered, it varies from one election to another. Q. So that's not your opinion that turnout rates between blacks and whites are relatively even in Ferguson-Florissant school board elections? A. In the most recent handful yeah, I think it was my testimony is that the there's no significant difference between the rates in 2012, 13 and 14, and there is a sizable difference in the two years in which as I
10 11 12 13 14 15 16 17 18 19 20	 Q. Now, in this chart you are purporting to show that Ferguson is relatively less segregated than many or some other cities in the St. Louis area, correct? A. Yes. Q. Now, this chart does not include any comparison of Ferguson to areas outside of the St. Louis area in terms of its level of segregation, correct? A. Those areas you mean in Missouri or Q. Just outside of the St. Louis metro area. A. No. This is a graph that is based on the St. Louis metro area. Q. Okay. And in this blog post do you cite any 	8 9 10 11 12 13 14 15 16 17 18 19 20	black and white turnout rates in Ferguson-Florissant school district for school board elections are relatively even? A. Well, as I discovered, it varies from one election to another. Q. So that's not your opinion that turnout rates between blacks and whites are relatively even in Ferguson-Florissant school board elections? A. In the most recent handful yeah, I think it was my testimony is that the there's no significant difference between the rates in 2012, 13 and 14, and there is a sizable difference in the two years in which as I described in the report, the two years in which there were
10 11 12 13 14 15 16 17 18 19 20 21	 Q. Now, in this chart you are purporting to show that Ferguson is relatively less segregated than many or some other cities in the St. Louis area, correct? A. Yes. Q. Now, this chart does not include any comparison of Ferguson to areas outside of the St. Louis area in terms of its level of segregation, correct? A. Those areas you mean in Missouri or Q. Just outside of the St. Louis metro area. A. No. This is a graph that is based on the St. Louis metro area. Q. Okay. And in this blog post do you cite any statistics comparing Ferguson to levels of segregation 	8 9 10 11 12 13 14 15 16 17 18 19 20 21	black and white turnout rates in Ferguson-Florissant school district for school board elections are relatively even? A. Well, as I discovered, it varies from one election to another. Q. So that's not your opinion that turnout rates between blacks and whites are relatively even in Ferguson-Florissant school board elections? A. In the most recent handful yeah, I think it was my testimony is that the there's no significant difference between the rates in 2012, 13 and 14, and there is a sizable difference in the two years in which as I described in the report, the two years in which there were Florissant mayoral elections.
10 11 12 13 14 15 16 17 18 19 20 21 22	 Q. Now, in this chart you are purporting to show that Ferguson is relatively less segregated than many or some other cities in the St. Louis area, correct? A. Yes. Q. Now, this chart does not include any comparison of Ferguson to areas outside of the St. Louis area in terms of its level of segregation, correct? A. Those areas you mean in Missouri or Q. Just outside of the St. Louis metro area. A. No. This is a graph that is based on the St. Louis metro area. Q. Okay. And in this blog post do you cite any statistics comparing Ferguson to levels of segregation outside of the St. Louis metro area? 	8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	black and white turnout rates in Ferguson-Florissant school district for school board elections are relatively even? A. Well, as I discovered, it varies from one election to another. Q. So that's not your opinion that turnout rates between blacks and whites are relatively even in Ferguson-Florissant school board elections? A. In the most recent handful yeah, I think it was my testimony is that the there's no significant difference between the rates in 2012, 13 and 14, and there is a sizable difference in the two years in which as I described in the report, the two years in which there were Florissant mayoral elections. Q. As a general matter, is it your opinion
10 11 12 13 14 15 16 17 18 19 20 21 22 23	 Q. Now, in this chart you are purporting to show that Ferguson is relatively less segregated than many or some other cities in the St. Louis area, correct? A. Yes. Q. Now, this chart does not include any comparison of Ferguson to areas outside of the St. Louis area in terms of its level of segregation, correct? A. Those areas you mean in Missouri or Q. Just outside of the St. Louis metro area. A. No. This is a graph that is based on the St. Louis metro area. Q. Okay. And in this blog post do you cite any statistics comparing Ferguson to levels of segregation outside of the St. Louis metro area? A. No. 	8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	black and white turnout rates in Ferguson-Florissant school district for school board elections are relatively even? A. Well, as I discovered, it varies from one election to another. Q. So that's not your opinion that turnout rates between blacks and whites are relatively even in Ferguson-Florissant school board elections? A. In the most recent handful yeah, I think it was my testimony is that the there's no significant difference between the rates in 2012, 13 and 14, and there is a sizable difference in the two years in which as I described in the report, the two years in which there were Florissant mayoral elections. Q. As a general matter, is it your opinion sorry. Let me start that again. Is it your opinion that
10 11 12 13 14 15 16 17 18 19 20 21 22	 Q. Now, in this chart you are purporting to show that Ferguson is relatively less segregated than many or some other cities in the St. Louis area, correct? A. Yes. Q. Now, this chart does not include any comparison of Ferguson to areas outside of the St. Louis area in terms of its level of segregation, correct? A. Those areas you mean in Missouri or Q. Just outside of the St. Louis metro area. A. No. This is a graph that is based on the St. Louis metro area. Q. Okay. And in this blog post do you cite any statistics comparing Ferguson to levels of segregation outside of the St. Louis metro area? 	8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	black and white turnout rates in Ferguson-Florissant school district for school board elections are relatively even? A. Well, as I discovered, it varies from one election to another. Q. So that's not your opinion that turnout rates between blacks and whites are relatively even in Ferguson-Florissant school board elections? A. In the most recent handful yeah, I think it was my testimony is that the there's no significant difference between the rates in 2012, 13 and 14, and there is a sizable difference in the two years in which as I described in the report, the two years in which there were Florissant mayoral elections. Q. As a general matter, is it your opinion

	Page 49	Page 5
1	elections?	1 Q. And that's because if that underlying data is
2	A. Recently.	2 not accurate, that could undermine your ultimate opinion
3	Q. Okay. Now, I believe, and correct me if I'm	3 right?
4	wrong, you have two different forms of analysis in this	4 A. It would depend on the level of inaccuracy.
5	section of your report. First, you have a correlation	5 Q. But it could, right? If the underlying data
6	analysis where you attempt to measure the if there's a	6 was inaccurate, that could undermine your ultimate
7	correlation between turnout and the percent black voting	7 opinion?
8	age population of each precinct in the Ferguson-Florissant	8 A. Yes, if the underlying data had been assembled
9	school district. Is that an accurate characterization of	9 inappropriately, then yes, that would be it could
10	what's in Figure 5 on Page 13 of your report?	10 undermine the analysis, sure.
11	A. Yes.	11 Q. And it's your opinion that the data that you
12	Q. And second, I believe, on Page 15, Figure 6 in	12 used for these analyses in analyzing turnout rates is
13	your report, you have a series of ecological inference	13 accurate, right, Dr. Rodden?
14	estimates for black and white turnout rates in the	14 A. Yes, to the best my knowledge and the best of
15	Ferguson-Florissant school board elections since 2000; is	15 my abilities to assemble it, yes.
16	that correct?	16 Q. It's also important that the data be recent,
17	A. Correct.	17 right?
18	Q. Okay. Are there any other quantitative	18 A. As recent as possible, yes.
19	analyses in your report about turnout rates in	19 Q. And in your opinion as a political scientist,
20	Ferguson-Florissant school board elections other than the	20 the data that you used for this turnout analysis was
21	two that I just described?	21 sufficiently recent for your purposes in this report,
22	A. I need you to be a little bit more clear. If	22 correct?
23	you are asking whether there is any analysis that involves	23 A. It was the only data available at the level of
24	turnout rate, then the answer is yes. The supplemental	24 blocks that I could then aggregate up to the level of
25	report in which Professor Chen and I attempted to	25 precincts in order to conduct the analysis. So faced with
	Page 50	Page 5
1	understand the effectiveness of the districts drawn by Dr.	1 the choice of not analyzing turnout or analyzing turnout
2	Cooper, turnout of African-Americans was included as part	
		2 using the most recent data, I chose the latter.
3	of that analysis.	3 Q. And so you would agree then that the data that
3 4	of that analysis. Q. Right.	3 Q. And so you would agree then that the data that 4 you used for your turnout analysis was the best available
3 4 5	of that analysis. Q. Right. A. There is no other analysis that I'm thinking	3 Q. And so you would agree then that the data that 4 you used for your turnout analysis was the best available 5 data for that purpose, right?
3 4 5 6	of that analysis. Q. Right. A. There is no other analysis that I'm thinking of right now in which turnout was the focus, the thing we	3 Q. And so you would agree then that the data that 4 you used for your turnout analysis was the best available 5 data for that purpose, right? 6 A. Yes.
3 4 5 6 7	of that analysis. Q. Right. A. There is no other analysis that I'm thinking of right now in which turnout was the focus, the thing we were trying to explain.	Q. And so you would agree then that the data that you used for your turnout analysis was the best available data for that purpose, right? A. Yes. Q. Let's talk about your bivariate correlation
3 4 5 6 7 8	of that analysis. Q. Right. A. There is no other analysis that I'm thinking of right now in which turnout was the focus, the thing we were trying to explain. Q. Right. So my question is your opinion about	Q. And so you would agree then that the data that you used for your turnout analysis was the best available data for that purpose, right? A. Yes. Q. Let's talk about your bivariate correlation analysis on Page 13, Figure 5. I've described that
3 4 5 6 7 8	of that analysis. Q. Right. A. There is no other analysis that I'm thinking of right now in which turnout was the focus, the thing we were trying to explain. Q. Right. So my question is your opinion about relative rates of turnout between blacks and whites in the	Q. And so you would agree then that the data that you used for your turnout analysis was the best available data for that purpose, right? A. Yes. Q. Let's talk about your bivariate correlation analysis on Page 13, Figure 5. I've described that accurately at a bivariate correlation, haven't I, Dr.
3 4 5 6 7 8 9	of that analysis. Q. Right. A. There is no other analysis that I'm thinking of right now in which turnout was the focus, the thing we were trying to explain. Q. Right. So my question is your opinion about relative rates of turnout between blacks and whites in the Ferguson-Florissant school board, it's based on these two	Q. And so you would agree then that the data that you used for your turnout analysis was the best available data for that purpose, right? A. Yes. Q. Let's talk about your bivariate correlation analysis on Page 13, Figure 5. I've described that accurately at a bivariate correlation, haven't I, Dr. Rodden?
3 4 5 6 7 8 9 10	of that analysis. Q. Right. A. There is no other analysis that I'm thinking of right now in which turnout was the focus, the thing we were trying to explain. Q. Right. So my question is your opinion about relative rates of turnout between blacks and whites in the Ferguson-Florissant school board, it's based on these two analyses where you attempt to measure turnout in past	Q. And so you would agree then that the data that you used for your turnout analysis was the best available data for that purpose, right? A. Yes. Q. Let's talk about your bivariate correlation analysis on Page 13, Figure 5. I've described that accurately at a bivariate correlation, haven't I, Dr. Rodden? A. I don't report a correlation coefficient. I
3 4 5 6 7 8 9 10 11	of that analysis. Q. Right. A. There is no other analysis that I'm thinking of right now in which turnout was the focus, the thing we were trying to explain. Q. Right. So my question is your opinion about relative rates of turnout between blacks and whites in the Ferguson-Florissant school board, it's based on these two analyses where you attempt to measure turnout in past Ferguson-Florissant school board elections, correct?	Q. And so you would agree then that the data that you used for your turnout analysis was the best available data for that purpose, right? A. Yes. Q. Let's talk about your bivariate correlation analysis on Page 13, Figure 5. I've described that accurately at a bivariate correlation, haven't I, Dr. Rodden? A. I don't report a correlation coefficient. I plot all of the precincts, and then I fit, instead of
3 4 5 6 7 8 9 10 11 12 13	of that analysis. Q. Right. A. There is no other analysis that I'm thinking of right now in which turnout was the focus, the thing we were trying to explain. Q. Right. So my question is your opinion about relative rates of turnout between blacks and whites in the Ferguson-Florissant school board, it's based on these two analyses where you attempt to measure turnout in past Ferguson-Florissant school board elections, correct? A. Correct.	Q. And so you would agree then that the data that you used for your turnout analysis was the best available data for that purpose, right? A. Yes. Q. Let's talk about your bivariate correlation analysis on Page 13, Figure 5. I've described that accurately at a bivariate correlation, haven't I, Dr. Rodden? A. I don't report a correlation coefficient. I plot all of the precincts, and then I fit, instead of fitting a straight line, it's when you look at the
3 4 5 6 7 8 9 10 11 12 13	of that analysis. Q. Right. A. There is no other analysis that I'm thinking of right now in which turnout was the focus, the thing we were trying to explain. Q. Right. So my question is your opinion about relative rates of turnout between blacks and whites in the Ferguson-Florissant school board, it's based on these two analyses where you attempt to measure turnout in past Ferguson-Florissant school board elections, correct? A. Correct. Q. The ecological inference and the bivariate	Q. And so you would agree then that the data that you used for your turnout analysis was the best available data for that purpose, right? A. Yes. Q. Let's talk about your bivariate correlation analysis on Page 13, Figure 5. I've described that accurately at a bivariate correlation, haven't I, Dr. Rodden? A. I don't report a correlation coefficient. I plot all of the precincts, and then I fit, instead of fitting a straight line, it's when you look at the data, it seems like, just from visually one gets the
3 4 5 6 7 8 9 10 11 12 13 14 15	of that analysis. Q. Right. A. There is no other analysis that I'm thinking of right now in which turnout was the focus, the thing we were trying to explain. Q. Right. So my question is your opinion about relative rates of turnout between blacks and whites in the Ferguson-Florissant school board, it's based on these two analyses where you attempt to measure turnout in past Ferguson-Florissant school board elections, correct? A. Correct. Q. The ecological inference and the bivariate correlation, correct?	Q. And so you would agree then that the data that you used for your turnout analysis was the best available data for that purpose, right? A. Yes. Q. Let's talk about your bivariate correlation analysis on Page 13, Figure 5. I've described that accurately at a bivariate correlation, haven't I, Dr. Rodden? A. I don't report a correlation coefficient. I plot all of the precincts, and then I fit, instead of fitting a straight line, it's when you look at the data, it seems like, just from visually one gets the impression there might be some nonlinearity. In that
3 4 5 6 7 8 9 10 11 12 13 14 15	of that analysis. Q. Right. A. There is no other analysis that I'm thinking of right now in which turnout was the focus, the thing we were trying to explain. Q. Right. So my question is your opinion about relative rates of turnout between blacks and whites in the Ferguson-Florissant school board, it's based on these two analyses where you attempt to measure turnout in past Ferguson-Florissant school board elections, correct? A. Correct. Q. The ecological inference and the bivariate correlation, correct? A. That's correct, yes.	Q. And so you would agree then that the data that you used for your turnout analysis was the best available data for that purpose, right? A. Yes. Q. Let's talk about your bivariate correlation analysis on Page 13, Figure 5. I've described that accurately at a bivariate correlation, haven't I, Dr. Rodden? A. I don't report a correlation coefficient. I plot all of the precincts, and then I fit, instead of fitting a straight line, it's when you look at the data, it seems like, just from visually one gets the impression there might be some nonlinearity. In that situation when one is drawing a visual display, it makes
3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	of that analysis. Q. Right. A. There is no other analysis that I'm thinking of right now in which turnout was the focus, the thing we were trying to explain. Q. Right. So my question is your opinion about relative rates of turnout between blacks and whites in the Ferguson-Florissant school board, it's based on these two analyses where you attempt to measure turnout in past Ferguson-Florissant school board elections, correct? A. Correct. Q. The ecological inference and the bivariate correlation, correct? A. That's correct, yes. Q. Okay. There's no other analysis on which that	Q. And so you would agree then that the data that you used for your turnout analysis was the best available data for that purpose, right? A. Yes. Q. Let's talk about your bivariate correlation analysis on Page 13, Figure 5. I've described that accurately at a bivariate correlation, haven't I, Dr. Rodden? A. I don't report a correlation coefficient. I plot all of the precincts, and then I fit, instead of fitting a straight line, it's when you look at the data, it seems like, just from visually one gets the impression there might be some nonlinearity. In that situation when one is drawing a visual display, it makes sense to use a kind of a nonlinear smoother to present the
3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	of that analysis. Q. Right. A. There is no other analysis that I'm thinking of right now in which turnout was the focus, the thing we were trying to explain. Q. Right. So my question is your opinion about relative rates of turnout between blacks and whites in the Ferguson-Florissant school board, it's based on these two analyses where you attempt to measure turnout in past Ferguson-Florissant school board elections, correct? A. Correct. Q. The ecological inference and the bivariate correlation, correct? A. That's correct, yes. Q. Okay. There's no other analysis on which that opinion about comparative turnout rates between blacks and	Q. And so you would agree then that the data that you used for your turnout analysis was the best available data for that purpose, right? A. Yes. Q. Let's talk about your bivariate correlation analysis on Page 13, Figure 5. I've described that accurately at a bivariate correlation, haven't I, Dr. Rodden? A. I don't report a correlation coefficient. I plot all of the precincts, and then I fit, instead of fitting a straight line, it's when you look at the data, it seems like, just from visually one gets the impression there might be some nonlinearity. In that situation when one is drawing a visual display, it makes sense to use a kind of a nonlinear smoother to present the data.
3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	of that analysis. Q. Right. A. There is no other analysis that I'm thinking of right now in which turnout was the focus, the thing we were trying to explain. Q. Right. So my question is your opinion about relative rates of turnout between blacks and whites in the Ferguson-Florissant school board, it's based on these two analyses where you attempt to measure turnout in past Ferguson-Florissant school board elections, correct? A. Correct. Q. The ecological inference and the bivariate correlation, correct? A. That's correct, yes. Q. Okay. There's no other analysis on which that opinion about comparative turnout rates between blacks and whites in the Ferguson-Florissant school board is based,	Q. And so you would agree then that the data that you used for your turnout analysis was the best available data for that purpose, right? A. Yes. Q. Let's talk about your bivariate correlation analysis on Page 13, Figure 5. I've described that accurately at a bivariate correlation, haven't I, Dr. Rodden? A. I don't report a correlation coefficient. I plot all of the precincts, and then I fit, instead of fitting a straight line, it's when you look at the data, it seems like, just from visually one gets the impression there might be some nonlinearity. In that situation when one is drawing a visual display, it makes sense to use a kind of a nonlinear smoother to present the data. It's really more a visual aid, but there is
3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	of that analysis. Q. Right. A. There is no other analysis that I'm thinking of right now in which turnout was the focus, the thing we were trying to explain. Q. Right. So my question is your opinion about relative rates of turnout between blacks and whites in the Ferguson-Florissant school board, it's based on these two analyses where you attempt to measure turnout in past Ferguson-Florissant school board elections, correct? A. Correct. Q. The ecological inference and the bivariate correlation, correct? A. That's correct, yes. Q. Okay. There's no other analysis on which that opinion about comparative turnout rates between blacks and whites in the Ferguson-Florissant school board is based, correct?	Q. And so you would agree then that the data that you used for your turnout analysis was the best available data for that purpose, right? A. Yes. Q. Let's talk about your bivariate correlation analysis on Page 13, Figure 5. I've described that accurately at a bivariate correlation, haven't I, Dr. Rodden? A. I don't report a correlation coefficient. I plot all of the precincts, and then I fit, instead of fitting a straight line, it's when you look at the data, it seems like, just from visually one gets the impression there might be some nonlinearity. In that situation when one is drawing a visual display, it makes sense to use a kind of a nonlinear smoother to present the data. It's really more a visual aid, but there is there is no bivariate correlation reported here. There is
3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	of that analysis. Q. Right. A. There is no other analysis that I'm thinking of right now in which turnout was the focus, the thing we were trying to explain. Q. Right. So my question is your opinion about relative rates of turnout between blacks and whites in the Ferguson-Florissant school board, it's based on these two analyses where you attempt to measure turnout in past Ferguson-Florissant school board elections, correct? A. Correct. Q. The ecological inference and the bivariate correlation, correct? A. That's correct, yes. Q. Okay. There's no other analysis on which that opinion about comparative turnout rates between blacks and whites in the Ferguson-Florissant school board is based, correct? A. Correct.	Q. And so you would agree then that the data that you used for your turnout analysis was the best available data for that purpose, right? A. Yes. Q. Let's talk about your bivariate correlation analysis on Page 13, Figure 5. I've described that accurately at a bivariate correlation, haven't I, Dr. Rodden? A. I don't report a correlation coefficient. I plot all of the precincts, and then I fit, instead of fitting a straight line, it's when you look at the data, it seems like, just from visually one gets the impression there might be some nonlinearity. In that situation when one is drawing a visual display, it makes sense to use a kind of a nonlinear smoother to present the data. It's really more a visual aid, but there is there is no bivariate correlation reported here. There is a lowest plot that is presented in red.
3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	of that analysis. Q. Right. A. There is no other analysis that I'm thinking of right now in which turnout was the focus, the thing we were trying to explain. Q. Right. So my question is your opinion about relative rates of turnout between blacks and whites in the Ferguson-Florissant school board, it's based on these two analyses where you attempt to measure turnout in past Ferguson-Florissant school board elections, correct? A. Correct. Q. The ecological inference and the bivariate correlation, correct? A. That's correct, yes. Q. Okay. There's no other analysis on which that opinion about comparative turnout rates between blacks and whites in the Ferguson-Florissant school board is based, correct? A. Correct. Q. Okay. Now, in performing your turnout	Q. And so you would agree then that the data that you used for your turnout analysis was the best available data for that purpose, right? A. Yes. Q. Let's talk about your bivariate correlation analysis on Page 13, Figure 5. I've described that accurately at a bivariate correlation, haven't I, Dr. Rodden? A. I don't report a correlation coefficient. I plot all of the precincts, and then I fit, instead of fitting a straight line, it's when you look at the data, it seems like, just from visually one gets the impression there might be some nonlinearity. In that situation when one is drawing a visual display, it makes sense to use a kind of a nonlinear smoother to present the data. It's really more a visual aid, but there is there is no bivariate correlation reported here. There is a lowest plot that is presented in red. Q. Okay. But am I accurate in saying that you're
3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	of that analysis. Q. Right. A. There is no other analysis that I'm thinking of right now in which turnout was the focus, the thing we were trying to explain. Q. Right. So my question is your opinion about relative rates of turnout between blacks and whites in the Ferguson-Florissant school board, it's based on these two analyses where you attempt to measure turnout in past Ferguson-Florissant school board elections, correct? A. Correct. Q. The ecological inference and the bivariate correlation, correct? A. That's correct, yes. Q. Okay. There's no other analysis on which that opinion about comparative turnout rates between blacks and whites in the Ferguson-Florissant school board is based, correct? A. Correct. Q. Okay. Now, in performing your turnout analysis, it's very important that the data you utilize be	Q. And so you would agree then that the data that you used for your turnout analysis was the best available data for that purpose, right? A. Yes. Q. Let's talk about your bivariate correlation analysis on Page 13, Figure 5. I've described that accurately at a bivariate correlation, haven't I, Dr. Rodden? A. I don't report a correlation coefficient. I plot all of the precincts, and then I fit, instead of fitting a straight line, it's when you look at the data, it seems like, just from visually one gets the impression there might be some nonlinearity. In that situation when one is drawing a visual display, it makes sense to use a kind of a nonlinear smoother to present the data. It's really more a visual aid, but there is there is no bivariate correlation reported here. There is a lowest plot that is presented in red. Q. Okay. But am I accurate in saying that you're trying to determine whether or not there's a correlation
3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	of that analysis. Q. Right. A. There is no other analysis that I'm thinking of right now in which turnout was the focus, the thing we were trying to explain. Q. Right. So my question is your opinion about relative rates of turnout between blacks and whites in the Ferguson-Florissant school board, it's based on these two analyses where you attempt to measure turnout in past Ferguson-Florissant school board elections, correct? A. Correct. Q. The ecological inference and the bivariate correlation, correct? A. That's correct, yes. Q. Okay. There's no other analysis on which that opinion about comparative turnout rates between blacks and whites in the Ferguson-Florissant school board is based, correct? A. Correct. Q. Okay. Now, in performing your turnout	Q. And so you would agree then that the data that you used for your turnout analysis was the best available data for that purpose, right? A. Yes. Q. Let's talk about your bivariate correlation analysis on Page 13, Figure 5. I've described that accurately at a bivariate correlation, haven't I, Dr. Rodden? A. I don't report a correlation coefficient. I plot all of the precincts, and then I fit, instead of fitting a straight line, it's when you look at the data, it seems like, just from visually one gets the impression there might be some nonlinearity. In that situation when one is drawing a visual display, it makes sense to use a kind of a nonlinear smoother to present the data. It's really more a visual aid, but there is there is no bivariate correlation reported here. There is a lowest plot that is presented in red. Q. Okay. But am I accurate in saying that you're

	Page 53		Page 55
1	other hand?	1	can whether these are comparable essentially, is
2	A. Correct.	2	Q. Well, just if you're measuring turnout the
3	Q. And you calculate turnout as the number of	3	same way, right? I understand how you measure turnout
4	ballots cast divided by registered voters; is that	4	you calculate turnout in your correlation analysis, it's
5	correct?	5	ballots cast divided by registered voters. I'm trying to
6	A. If you got that from the text of the report,	6	understand if in your ecological inference estimates here
7	then it is correct.	7	you're calculating turnout in the same way.
8	Q. All right. I think, if I remember	8	A. I believe so. That is my recollection.
9	correctly let's see. On Page 12, Paragraph 21 the	9	Q. Okay. Now, for both of these turnout analyses
10	second sentence, I believe you say that turnout is defined	10	you need to know the voting age population and the percent
11	as the number of ballots cast in the April election	11	the total voting age population and the percent of the
12	divided by the number of registered voters; is that right?	12	voting age population that is black for each precinct; is
13	A. That's correct. It would be the election	13	that correct?
14	commissioners report a column for each precinct that lets	14	A. Yes, that's what I used, right.
15	us know the total number of ballots cast, and I and we	15	Q. And for purposes of calculating the voting age
16	also have the number of registered voters, so those are	16	population and the percent black of the voting age
17	the data I used.	17	population for each precinct in the Ferguson-Florissant
18	Q. Registered voters is the denominator?	18	school district, you used decennial census data; is that
19	A. Yes.	19	correct?
20	Q. Okay. Now, in your analysis here you didn't	20	A. Yes. As I described, that is the only data
21	go back before the 2011 election, right?	21	available at the block level. There are no mid-decade
22	A. Oh, I I made those graphs. I just	22	block counts to work with.
23	included, in order to make something that was visually	23	Q. And you testified that it's sufficiently
24	nice and not too overwhelming, I just put the most recent	24	accurate and recent enough, and by that I mean when I
25	elections on the graph.	25	say it, I mean the decennial census data, is sufficiently
	Page 54		Page 56
			r age 30
1	_	1	
1	Q. But so you didn't include you did a	1 2	accurate and recent enough to ascertain the total voting
2	Q. But so you didn't include you did a similar analysis for elections before 2012, but you didn't	2	accurate and recent enough to ascertain the total voting age population and the percent black voting age population
2	Q. But so you didn't include you did a similar analysis for elections before 2012, but you didn't include those in your report?	2	accurate and recent enough to ascertain the total voting age population and the percent black voting age population of each precinct in the Ferguson-Florissant school
2 3 4	Q. But so you didn't include you did a similar analysis for elections before 2012, but you didn't include those in your report? A. That's correct, but I would have a hard time	2 3 4	accurate and recent enough to ascertain the total voting age population and the percent black voting age population of each precinct in the Ferguson-Florissant school district, correct, Dr. Rodden?
2 3 4 5	Q. But so you didn't include you did a similar analysis for elections before 2012, but you didn't include those in your report? A. That's correct, but I would have a hard time remembering what they looked like. I remember the I	2	accurate and recent enough to ascertain the total voting age population and the percent black voting age population of each precinct in the Ferguson-Florissant school district, correct, Dr. Rodden? A. It allowed us to make the it allows me to
2 3 4 5 6	Q. But so you didn't include you did a similar analysis for elections before 2012, but you didn't include those in your report? A. That's correct, but I would have a hard time remembering what they looked like. I remember the I remember the overall relationship looking very similar.	2 3 4 5	accurate and recent enough to ascertain the total voting age population and the percent black voting age population of each precinct in the Ferguson-Florissant school district, correct, Dr. Rodden? A. It allowed us to make the it allows me to make the comparisons that I make here. The in an ideal
2 3 4 5	Q. But so you didn't include you did a similar analysis for elections before 2012, but you didn't include those in your report? A. That's correct, but I would have a hard time remembering what they looked like. I remember the I remember the overall relationship looking very similar. Q. Okay. Now, on Page 15, Figure 6, these are	2 3 4 5 6	accurate and recent enough to ascertain the total voting age population and the percent black voting age population of each precinct in the Ferguson-Florissant school district, correct, Dr. Rodden? A. It allowed us to make the it allows me to
2 3 4 5 6 7	Q. But so you didn't include you did a similar analysis for elections before 2012, but you didn't include those in your report? A. That's correct, but I would have a hard time remembering what they looked like. I remember the I remember the overall relationship looking very similar.	2 3 4 5 6 7	accurate and recent enough to ascertain the total voting age population and the percent black voting age population of each precinct in the Ferguson-Florissant school district, correct, Dr. Rodden? A. It allowed us to make the it allows me to make the comparisons that I make here. The in an ideal world there would be block level decennial numbers that I
2 3 4 5 6 7 8	Q. But so you didn't include you did a similar analysis for elections before 2012, but you didn't include those in your report? A. That's correct, but I would have a hard time remembering what they looked like. I remember the I remember the overall relationship looking very similar. Q. Okay. Now, on Page 15, Figure 6, these are your ecological inference estimates for black and white	2 3 4 5 6 7 8	accurate and recent enough to ascertain the total voting age population and the percent black voting age population of each precinct in the Ferguson-Florissant school district, correct, Dr. Rodden? A. It allowed us to make the it allows me to make the comparisons that I make here. The in an ideal world there would be block level decennial numbers that I could use. I should also add that I use the 2000 census
2 3 4 5 6 7 8	Q. But so you didn't include you did a similar analysis for elections before 2012, but you didn't include those in your report? A. That's correct, but I would have a hard time remembering what they looked like. I remember the I remember the overall relationship looking very similar. Q. Okay. Now, on Page 15, Figure 6, these are your ecological inference estimates for black and white turnout in Ferguson-Florissant school board elections,	2 3 4 5 6 7 8	accurate and recent enough to ascertain the total voting age population and the percent black voting age population of each precinct in the Ferguson-Florissant school district, correct, Dr. Rodden? A. It allowed us to make the it allows me to make the comparisons that I make here. The in an ideal world there would be block level decennial numbers that I could use. I should also add that I use the 2000 census for the earlier for the earlier years, so I'm trying to
2 3 4 5 6 7 8 9	Q. But so you didn't include you did a similar analysis for elections before 2012, but you didn't include those in your report? A. That's correct, but I would have a hard time remembering what they looked like. I remember the I remember the overall relationship looking very similar. Q. Okay. Now, on Page 15, Figure 6, these are your ecological inference estimates for black and white turnout in Ferguson-Florissant school board elections, right?	2 3 4 5 6 7 8 9	accurate and recent enough to ascertain the total voting age population and the percent black voting age population of each precinct in the Ferguson-Florissant school district, correct, Dr. Rodden? A. It allowed us to make the it allows me to make the comparisons that I make here. The in an ideal world there would be block level decennial numbers that I could use. I should also add that I use the 2000 census for the earlier for the earlier years, so I'm trying to use the most appropriate data based on what's available.
2 3 4 5 6 7 8 9 10	Q. But so you didn't include you did a similar analysis for elections before 2012, but you didn't include those in your report? A. That's correct, but I would have a hard time remembering what they looked like. I remember the I remember the overall relationship looking very similar. Q. Okay. Now, on Page 15, Figure 6, these are your ecological inference estimates for black and white turnout in Ferguson-Florissant school board elections, right? A. Yes.	2 3 4 5 6 7 8 9 10	accurate and recent enough to ascertain the total voting age population and the percent black voting age population of each precinct in the Ferguson-Florissant school district, correct, Dr. Rodden? A. It allowed us to make the it allows me to make the comparisons that I make here. The in an ideal world there would be block level decennial numbers that I could use. I should also add that I use the 2000 census for the earlier for the earlier years, so I'm trying to use the most appropriate data based on what's available. Q. And when you say you're using the most
2 3 4 5 6 7 8 9 10 11	Q. But so you didn't include you did a similar analysis for elections before 2012, but you didn't include those in your report? A. That's correct, but I would have a hard time remembering what they looked like. I remember the I remember the overall relationship looking very similar. Q. Okay. Now, on Page 15, Figure 6, these are your ecological inference estimates for black and white turnout in Ferguson-Florissant school board elections, right? A. Yes. Q. Okay. Now, in your turnout analysis here, you	2 3 4 5 6 7 8 9 10 11	accurate and recent enough to ascertain the total voting age population and the percent black voting age population of each precinct in the Ferguson-Florissant school district, correct, Dr. Rodden? A. It allowed us to make the it allows me to make the comparisons that I make here. The in an ideal world there would be block level decennial numbers that I could use. I should also add that I use the 2000 census for the earlier for the earlier years, so I'm trying to use the most appropriate data based on what's available. Q. And when you say you're using the most appropriate data based on what's available, you are using,
2 3 4 5 6 7 8 9 10 11 12	Q. But so you didn't include you did a similar analysis for elections before 2012, but you didn't include those in your report? A. That's correct, but I would have a hard time remembering what they looked like. I remember the I remember the overall relationship looking very similar. Q. Okay. Now, on Page 15, Figure 6, these are your ecological inference estimates for black and white turnout in Ferguson-Florissant school board elections, right? A. Yes. Q. Okay. Now, in your turnout analysis here, you also calculate turnout as the number of ballots cast	2 3 4 5 6 7 8 9 10 11 12 13	accurate and recent enough to ascertain the total voting age population and the percent black voting age population of each precinct in the Ferguson-Florissant school district, correct, Dr. Rodden? A. It allowed us to make the it allows me to make the comparisons that I make here. The in an ideal world there would be block level decennial numbers that I could use. I should also add that I use the 2000 census for the earlier for the earlier years, so I'm trying to use the most appropriate data based on what's available. Q. And when you say you're using the most appropriate data based on what's available, you are using, just so I understand what you're doing, you're using
2 3 4 5 6 7 8 9 10 11 12 13 14	Q. But so you didn't include you did a similar analysis for elections before 2012, but you didn't include those in your report? A. That's correct, but I would have a hard time remembering what they looked like. I remember the I remember the overall relationship looking very similar. Q. Okay. Now, on Page 15, Figure 6, these are your ecological inference estimates for black and white turnout in Ferguson-Florissant school board elections, right? A. Yes. Q. Okay. Now, in your turnout analysis here, you also calculate turnout as the number of ballots cast divided by registered voters, correct?	2 3 4 5 6 7 8 9 10 11 12 13	accurate and recent enough to ascertain the total voting age population and the percent black voting age population of each precinct in the Ferguson-Florissant school district, correct, Dr. Rodden? A. It allowed us to make the it allows me to make the comparisons that I make here. The in an ideal world there would be block level decennial numbers that I could use. I should also add that I use the 2000 census for the earlier for the earlier years, so I'm trying to use the most appropriate data based on what's available. Q. And when you say you're using the most appropriate data based on what's available, you are using, just so I understand what you're doing, you're using decennial census data to determine the voting age
2 3 4 5 6 7 8 9 10 11 12 13 14	Q. But so you didn't include you did a similar analysis for elections before 2012, but you didn't include those in your report? A. That's correct, but I would have a hard time remembering what they looked like. I remember the I remember the overall relationship looking very similar. Q. Okay. Now, on Page 15, Figure 6, these are your ecological inference estimates for black and white turnout in Ferguson-Florissant school board elections, right? A. Yes. Q. Okay. Now, in your turnout analysis here, you also calculate turnout as the number of ballots cast divided by registered voters, correct? A. This is the this comes from the ecological	2 3 4 5 6 7 8 9 10 11 12 13 14 15	accurate and recent enough to ascertain the total voting age population and the percent black voting age population of each precinct in the Ferguson-Florissant school district, correct, Dr. Rodden? A. It allowed us to make the it allows me to make the comparisons that I make here. The in an ideal world there would be block level decennial numbers that I could use. I should also add that I use the 2000 census for the earlier for the earlier years, so I'm trying to use the most appropriate data based on what's available. Q. And when you say you're using the most appropriate data based on what's available, you are using, just so I understand what you're doing, you're using decennial census data to determine the voting age population and the black voting age population of each
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	Q. But so you didn't include you did a similar analysis for elections before 2012, but you didn't include those in your report? A. That's correct, but I would have a hard time remembering what they looked like. I remember the I remember the overall relationship looking very similar. Q. Okay. Now, on Page 15, Figure 6, these are your ecological inference estimates for black and white turnout in Ferguson-Florissant school board elections, right? A. Yes. Q. Okay. Now, in your turnout analysis here, you also calculate turnout as the number of ballots cast divided by registered voters, correct? A. This is the this comes from the ecological inference analysis. I need to refresh my memory about	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	accurate and recent enough to ascertain the total voting age population and the percent black voting age population of each precinct in the Ferguson-Florissant school district, correct, Dr. Rodden? A. It allowed us to make the it allows me to make the comparisons that I make here. The in an ideal world there would be block level decennial numbers that I could use. I should also add that I use the 2000 census for the earlier for the earlier years, so I'm trying to use the most appropriate data based on what's available. Q. And when you say you're using the most appropriate data based on what's available, you are using, just so I understand what you're doing, you're using decennial census data to determine the voting age population and the black voting age population of each precinct within the Ferguson-Florissant school district,
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	Q. But so you didn't include you did a similar analysis for elections before 2012, but you didn't include those in your report? A. That's correct, but I would have a hard time remembering what they looked like. I remember the I remember the overall relationship looking very similar. Q. Okay. Now, on Page 15, Figure 6, these are your ecological inference estimates for black and white turnout in Ferguson-Florissant school board elections, right? A. Yes. Q. Okay. Now, in your turnout analysis here, you also calculate turnout as the number of ballots cast divided by registered voters, correct? A. This is the this comes from the ecological inference analysis. I need to refresh my memory about this.	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	accurate and recent enough to ascertain the total voting age population and the percent black voting age population of each precinct in the Ferguson-Florissant school district, correct, Dr. Rodden? A. It allowed us to make the it allows me to make the comparisons that I make here. The in an ideal world there would be block level decennial numbers that I could use. I should also add that I use the 2000 census for the earlier for the earlier years, so I'm trying to use the most appropriate data based on what's available. Q. And when you say you're using the most appropriate data based on what's available, you are using, just so I understand what you're doing, you're using decennial census data to determine the voting age population and the black voting age population of each precinct within the Ferguson-Florissant school district, correct?
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	Q. But so you didn't include you did a similar analysis for elections before 2012, but you didn't include those in your report? A. That's correct, but I would have a hard time remembering what they looked like. I remember the I remember the overall relationship looking very similar. Q. Okay. Now, on Page 15, Figure 6, these are your ecological inference estimates for black and white turnout in Ferguson-Florissant school board elections, right? A. Yes. Q. Okay. Now, in your turnout analysis here, you also calculate turnout as the number of ballots cast divided by registered voters, correct? A. This is the this comes from the ecological inference analysis. I need to refresh my memory about this. Q. So as you're doing that, I guess to clarify	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	accurate and recent enough to ascertain the total voting age population and the percent black voting age population of each precinct in the Ferguson-Florissant school district, correct, Dr. Rodden? A. It allowed us to make the it allows me to make the comparisons that I make here. The in an ideal world there would be block level decennial numbers that I could use. I should also add that I use the 2000 census for the earlier for the earlier years, so I'm trying to use the most appropriate data based on what's available. Q. And when you say you're using the most appropriate data based on what's available, you are using, just so I understand what you're doing, you're using decennial census data to determine the voting age population and the black voting age population of each precinct within the Ferguson-Florissant school district, correct? A. For the purposes of this analysis, that was
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	Q. But so you didn't include you did a similar analysis for elections before 2012, but you didn't include those in your report? A. That's correct, but I would have a hard time remembering what they looked like. I remember the I remember the overall relationship looking very similar. Q. Okay. Now, on Page 15, Figure 6, these are your ecological inference estimates for black and white turnout in Ferguson-Florissant school board elections, right? A. Yes. Q. Okay. Now, in your turnout analysis here, you also calculate turnout as the number of ballots cast divided by registered voters, correct? A. This is the this comes from the ecological inference analysis. I need to refresh my memory about this. Q. So as you're doing that, I guess to clarify what my question is, I want to understand if your measure	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	accurate and recent enough to ascertain the total voting age population and the percent black voting age population of each precinct in the Ferguson-Florissant school district, correct, Dr. Rodden? A. It allowed us to make the it allows me to make the comparisons that I make here. The in an ideal world there would be block level decennial numbers that I could use. I should also add that I use the 2000 census for the earlier for the earlier years, so I'm trying to use the most appropriate data based on what's available. Q. And when you say you're using the most appropriate data based on what's available, you are using, just so I understand what you're doing, you're using decennial census data to determine the voting age population and the black voting age population of each precinct within the Ferguson-Florissant school district, correct? A. For the purposes of this analysis, that was the best I could do, yes.
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	Q. But so you didn't include you did a similar analysis for elections before 2012, but you didn't include those in your report? A. That's correct, but I would have a hard time remembering what they looked like. I remember the I remember the overall relationship looking very similar. Q. Okay. Now, on Page 15, Figure 6, these are your ecological inference estimates for black and white turnout in Ferguson-Florissant school board elections, right? A. Yes. Q. Okay. Now, in your turnout analysis here, you also calculate turnout as the number of ballots cast divided by registered voters, correct? A. This is the this comes from the ecological inference analysis. I need to refresh my memory about this. Q. So as you're doing that, I guess to clarify what my question is, I want to understand if your measure of turnout for your ecological inference estimate here is	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	accurate and recent enough to ascertain the total voting age population and the percent black voting age population of each precinct in the Ferguson-Florissant school district, correct, Dr. Rodden? A. It allowed us to make the it allows me to make the comparisons that I make here. The in an ideal world there would be block level decennial numbers that I could use. I should also add that I use the 2000 census for the earlier for the earlier years, so I'm trying to use the most appropriate data based on what's available. Q. And when you say you're using the most appropriate data based on what's available, you are using, just so I understand what you're doing, you're using decennial census data to determine the voting age population and the black voting age population of each precinct within the Ferguson-Florissant school district, correct? A. For the purposes of this analysis, that was the best I could do, yes. Q. Okay. Now, you reference in your reports the
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	Q. But so you didn't include you did a similar analysis for elections before 2012, but you didn't include those in your report? A. That's correct, but I would have a hard time remembering what they looked like. I remember the I remember the overall relationship looking very similar. Q. Okay. Now, on Page 15, Figure 6, these are your ecological inference estimates for black and white turnout in Ferguson-Florissant school board elections, right? A. Yes. Q. Okay. Now, in your turnout analysis here, you also calculate turnout as the number of ballots cast divided by registered voters, correct? A. This is the this comes from the ecological inference analysis. I need to refresh my memory about this. Q. So as you're doing that, I guess to clarify what my question is, I want to understand if your measure of turnout for your ecological inference estimate here is the same as your measure for turnout in your correlation	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	accurate and recent enough to ascertain the total voting age population and the percent black voting age population of each precinct in the Ferguson-Florissant school district, correct, Dr. Rodden? A. It allowed us to make the it allows me to make the comparisons that I make here. The in an ideal world there would be block level decennial numbers that I could use. I should also add that I use the 2000 census for the earlier for the earlier years, so I'm trying to use the most appropriate data based on what's available. Q. And when you say you're using the most appropriate data based on what's available, you are using, just so I understand what you're doing, you're using decennial census data to determine the voting age population and the black voting age population of each precinct within the Ferguson-Florissant school district, correct? A. For the purposes of this analysis, that was the best I could do, yes. Q. Okay. Now, you reference in your reports the Census Bureau's American Community Survey data, correct?
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	Q. But so you didn't include you did a similar analysis for elections before 2012, but you didn't include those in your report? A. That's correct, but I would have a hard time remembering what they looked like. I remember the I remember the overall relationship looking very similar. Q. Okay. Now, on Page 15, Figure 6, these are your ecological inference estimates for black and white turnout in Ferguson-Florissant school board elections, right? A. Yes. Q. Okay. Now, in your turnout analysis here, you also calculate turnout as the number of ballots cast divided by registered voters, correct? A. This is the this comes from the ecological inference analysis. I need to refresh my memory about this. Q. So as you're doing that, I guess to clarify what my question is, I want to understand if your measure of turnout for your ecological inference estimate here is the same as your measure for turnout in your correlation analysis on the previous page. Is it ballots cast divided	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	accurate and recent enough to ascertain the total voting age population and the percent black voting age population of each precinct in the Ferguson-Florissant school district, correct, Dr. Rodden? A. It allowed us to make the it allows me to make the comparisons that I make here. The in an ideal world there would be block level decennial numbers that I could use. I should also add that I use the 2000 census for the earlier for the earlier years, so I'm trying to use the most appropriate data based on what's available. Q. And when you say you're using the most appropriate data based on what's available, you are using, just so I understand what you're doing, you're using decennial census data to determine the voting age population and the black voting age population of each precinct within the Ferguson-Florissant school district, correct? A. For the purposes of this analysis, that was the best I could do, yes. Q. Okay. Now, you reference in your reports the Census Bureau's American Community Survey data, correct?
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	Q. But so you didn't include you did a similar analysis for elections before 2012, but you didn't include those in your report? A. That's correct, but I would have a hard time remembering what they looked like. I remember the I remember the overall relationship looking very similar. Q. Okay. Now, on Page 15, Figure 6, these are your ecological inference estimates for black and white turnout in Ferguson-Florissant school board elections, right? A. Yes. Q. Okay. Now, in your turnout analysis here, you also calculate turnout as the number of ballots cast divided by registered voters, correct? A. This is the this comes from the ecological inference analysis. I need to refresh my memory about this. Q. So as you're doing that, I guess to clarify what my question is, I want to understand if your measure of turnout for your ecological inference estimate here is the same as your measure for turnout in your correlation analysis on the previous page. Is it ballots cast divided by registered voters, or is it some other measure of	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	accurate and recent enough to ascertain the total voting age population and the percent black voting age population of each precinct in the Ferguson-Florissant school district, correct, Dr. Rodden? A. It allowed us to make the it allows me to make the comparisons that I make here. The in an ideal world there would be block level decennial numbers that I could use. I should also add that I use the 2000 census for the earlier for the earlier years, so I'm trying to use the most appropriate data based on what's available. Q. And when you say you're using the most appropriate data based on what's available, you are using, just so I understand what you're doing, you're using decennial census data to determine the voting age population and the black voting age population of each precinct within the Ferguson-Florissant school district, correct? A. For the purposes of this analysis, that was the best I could do, yes. Q. Okay. Now, you reference in your reports the Census Bureau's American Community Survey data, correct? A. Yes. Q. Now, that's different from the decennial

	Page 57	Page 5
1	Q. Now, the decennial census is an actual	1 they attempt to measure the population of different
2	enumeration, or at least purports to be an actual	2 districts, they use the decennial census data and not the
3	enumeration of the entire population, correct?	3 ACS, correct?
4	A. It is an effort to achieve the unachievable,	4 A. Of course, because the census data is reported
5	but it is a fine effort.	5 at the level of blocks and they are plugging the software
6	Q. It's a good effort, right?	6 into their computers in order to draw districts, so the
7	A. Yes.	7 ACS is not suitable to that task.
8	Q. Okay. And political scientists use the	8 Q. Okay. So if you were trying to draw districts
9	decennial census data for all sorts of purposes, correct?	9 for a state even five years after a census, like in 2015,
10	A. Yes.	10 if the state of Missouri wanted to redistrict, they would
11	Q. Now, the American Community Survey data, or	11 continue to use 2010 decennial census data and not the
12	ACS, which I'll call it for short, that's based on a	12 more recent ACS estimates for that purpose, correct?
13	sample of about two percent of the population, right?	13 A. Because of the lack of block level data, they
14	A. Each I don't recall the percentage, but	14 would be forced to, yes.
15	that sounds right.	15 Q. Now, I want to return to your calculation of
16	Q. Okay. It's based on a small percentage	16 turnout here. We established before when you calculate
17	A. Thought it was higher than that, but	17 turnout, it's votes divided by registered voters, right?
18	Q of the population?	18 A. Ballots cast divided by registered voters.
19	A. It's based on a sample, we can agree on that.	19 Q. Okay. Now, based on that calculation, do we
20	Q. And because it's based on a sample, it has	20 know whether or not the actual number of votes cast by
21	error margins associated with it; is that right?	21 whites is roughly equal to the actual number of votes ca
22	A. There are two types of bias we need to be	22 by blacks?
23	concerned with here. One is sampling bias, the other is	23 A. Do you mean based on the analysis in Figure 6?
24	non-sampling bias.	24 Because we would need to know
25	Q. So I'm just asking about sampling bias.	25 Q. Uh-huh. Yes.
		20 4. 511 11411. 1051
		B .
	Page 58	Page 6
1	Page 58 A. Yes.	Page 6 1 A the we would need to know the we
1 2	•	
	A. Yes.	1 A the we would need to know the we
2	A. Yes. Q. There's sampling bias, right?	1 A the we would need to know the we 2 would need to have some sense of the numbers of this i
2	A. Yes.Q. There's sampling bias, right?A. And what is preferable about a census is that	1 A the we would need to know the we 2 would need to have some sense of the numbers of this i 3 just giving us a percentage, and as you point out, we are
2 3 4	 A. Yes. Q. There's sampling bias, right? A. And what is preferable about a census is that it minimizes sampling bias, and we have some sampling bias 	1 A the we would need to know the we 2 would need to have some sense of the numbers of this i 3 just giving us a percentage, and as you point out, we are 4 basing this on the 2010 decennial census. Just that is
2 3 4 5	A. Yes. Q. There's sampling bias, right? A. And what is preferable about a census is that it minimizes sampling bias, and we have some sampling bias in the ACS which we need to take into account.	1 A the we would need to know the we 2 would need to have some sense of the numbers of this i 3 just giving us a percentage, and as you point out, we are 4 basing this on the 2010 decennial census. Just that is 5 those are the, you know, the share of African-Americans
2 3 4 5 6	A. Yes. Q. There's sampling bias, right? A. And what is preferable about a census is that it minimizes sampling bias, and we have some sampling bias in the ACS which we need to take into account. Q. And that sampling bias means it has confidence	1 A the we would need to know the we 2 would need to have some sense of the numbers of this i 3 just giving us a percentage, and as you point out, we are 4 basing this on the 2010 decennial census. Just that is 5 those are the, you know, the share of African-Americans 6 in the population, in the voting age population that is
2 3 4 5 6 7	A. Yes. Q. There's sampling bias, right? A. And what is preferable about a census is that it minimizes sampling bias, and we have some sampling bias in the ACS which we need to take into account. Q. And that sampling bias means it has confidence intervals or error margins associated with the numbers	1 A the we would need to know the we 2 would need to have some sense of the numbers of this i 3 just giving us a percentage, and as you point out, we are 4 basing this on the 2010 decennial census. Just that is 5 those are the, you know, the share of African-Americans 6 in the population, in the voting age population that is 7 being considered here, does not change every year. It is
2 3 4 5 6 7 8	A. Yes. Q. There's sampling bias, right? A. And what is preferable about a census is that it minimizes sampling bias, and we have some sampling bias in the ACS which we need to take into account. Q. And that sampling bias means it has confidence intervals or error margins associated with the numbers that are reported in the ACS, correct?	1 A the we would need to know the we 2 would need to have some sense of the numbers of this i 3 just giving us a percentage, and as you point out, we are 4 basing this on the 2010 decennial census. Just that is 5 those are the, you know, the share of African-Americans 6 in the population, in the voting age population that is 7 being considered here, does not change every year. It is 8 a rather blunt number that comes from the 2010 census.
2 3 4 5 6 7 8	A. Yes. Q. There's sampling bias, right? A. And what is preferable about a census is that it minimizes sampling bias, and we have some sampling bias in the ACS which we need to take into account. Q. And that sampling bias means it has confidence intervals or error margins associated with the numbers that are reported in the ACS, correct? A. Yes, and it's based on the sampling procedure.	1 A the we would need to know the we 2 would need to have some sense of the numbers of this i 3 just giving us a percentage, and as you point out, we are 4 basing this on the 2010 decennial census. Just that is 5 those are the, you know, the share of African-Americans 6 in the population, in the voting age population that is 7 being considered here, does not change every year. It is 8 a rather blunt number that comes from the 2010 census. 9 So yeah, the answer to your question is that
2 3 4 5 6 7 8 9	A. Yes. Q. There's sampling bias, right? A. And what is preferable about a census is that it minimizes sampling bias, and we have some sampling bias in the ACS which we need to take into account. Q. And that sampling bias means it has confidence intervals or error margins associated with the numbers that are reported in the ACS, correct? A. Yes, and it's based on the sampling procedure. Q. And those confidence intervals are larger if	1 A the we would need to know the we 2 would need to have some sense of the numbers of this i 3 just giving us a percentage, and as you point out, we are 4 basing this on the 2010 decennial census. Just that is 5 those are the, you know, the share of African-Americans 6 in the population, in the voting age population that is 7 being considered here, does not change every year. It is 8 a rather blunt number that comes from the 2010 census. 9 So yeah, the answer to your question is that 10 if we wanted to know for each of the dots on this
2 3 4 5 6 7 8 9 10	A. Yes. Q. There's sampling bias, right? A. And what is preferable about a census is that it minimizes sampling bias, and we have some sampling bias in the ACS which we need to take into account. Q. And that sampling bias means it has confidence intervals or error margins associated with the numbers that are reported in the ACS, correct? A. Yes, and it's based on the sampling procedure. Q. And those confidence intervals are larger if the sample is smaller, correct?	1 A the we would need to know the we 2 would need to have some sense of the numbers of this i 3 just giving us a percentage, and as you point out, we are 4 basing this on the 2010 decennial census. Just that is 5 those are the, you know, the share of African-Americans 6 in the population, in the voting age population that is 7 being considered here, does not change every year. It is 8 a rather blunt number that comes from the 2010 census. 9 So yeah, the answer to your question is that 10 if we wanted to know for each of the dots on this 11 graph, if we wanted to know is the electorate are the
2 3 4 5 6 7 8 9 10 11	A. Yes. Q. There's sampling bias, right? A. And what is preferable about a census is that it minimizes sampling bias, and we have some sampling bias in the ACS which we need to take into account. Q. And that sampling bias means it has confidence intervals or error margins associated with the numbers that are reported in the ACS, correct? A. Yes, and it's based on the sampling procedure. Q. And those confidence intervals are larger if the sample is smaller, correct? A. Yes.	1 A the we would need to know the we 2 would need to have some sense of the numbers of this i 3 just giving us a percentage, and as you point out, we are 4 basing this on the 2010 decennial census. Just that is 5 those are the, you know, the share of African-Americans 6 in the population, in the voting age population that is 7 being considered here, does not change every year. It is 8 a rather blunt number that comes from the 2010 census. 9 So yeah, the answer to your question is that 10 if we wanted to know for each of the dots on this 11 graph, if we wanted to know is the electorate are the 12 people who are showing up to vote, are they are more of
2 3 4 5 6 7 8 9 10 11 12 13	A. Yes. Q. There's sampling bias, right? A. And what is preferable about a census is that it minimizes sampling bias, and we have some sampling bias in the ACS which we need to take into account. Q. And that sampling bias means it has confidence intervals or error margins associated with the numbers that are reported in the ACS, correct? A. Yes, and it's based on the sampling procedure. Q. And those confidence intervals are larger if the sample is smaller, correct? A. Yes. Q. So when you're using the ACS data, when you	1 A the we would need to know the we 2 would need to have some sense of the numbers of this i 3 just giving us a percentage, and as you point out, we are 4 basing this on the 2010 decennial census. Just that is 5 those are the, you know, the share of African-Americans 6 in the population, in the voting age population that is 7 being considered here, does not change every year. It is 8 a rather blunt number that comes from the 2010 census. 9 So yeah, the answer to your question is that 10 if we wanted to know for each of the dots on this 11 graph, if we wanted to know is the electorate are the 12 people who are showing up to vote, are they are more of 13 them African-American or more of them whites, we would
2 3 4 5 6 7 8 9 10 11 12 13	A. Yes. Q. There's sampling bias, right? A. And what is preferable about a census is that it minimizes sampling bias, and we have some sampling bias in the ACS which we need to take into account. Q. And that sampling bias means it has confidence intervals or error margins associated with the numbers that are reported in the ACS, correct? A. Yes, and it's based on the sampling procedure. Q. And those confidence intervals are larger if the sample is smaller, correct? A. Yes. Q. So when you're using the ACS data, when you get down to smaller geographic subunits, the margins of	A the we would need to know the we would need to have some sense of the numbers of this i just giving us a percentage, and as you point out, we are basing this on the 2010 decennial census. Just that is those are the, you know, the share of African-Americans in the population, in the voting age population that is being considered here, does not change every year. It is a rather blunt number that comes from the 2010 census. So yeah, the answer to your question is that if we wanted to know for each of the dots on this graph, if we wanted to know is the electorate are the people who are showing up to vote, are they are more of them African-American or more of them whites, we would want to combine this information with some better
2 3 4 5 6 7 8 9 10 11 12 13 14	A. Yes. Q. There's sampling bias, right? A. And what is preferable about a census is that it minimizes sampling bias, and we have some sampling bias in the ACS which we need to take into account. Q. And that sampling bias means it has confidence intervals or error margins associated with the numbers that are reported in the ACS, correct? A. Yes, and it's based on the sampling procedure. Q. And those confidence intervals are larger if the sample is smaller, correct? A. Yes. Q. So when you're using the ACS data, when you get down to smaller geographic subunits, the margins of error increase; is that correct?	A the we would need to know the we would need to have some sense of the numbers of this i just giving us a percentage, and as you point out, we are basing this on the 2010 decennial census. Just that is those are the, you know, the share of African-Americans in the population, in the voting age population that is being considered here, does not change every year. It is a rather blunt number that comes from the 2010 census. So yeah, the answer to your question is that if we wanted to know for each of the dots on this graph, if we wanted to know is the electorate are the people who are showing up to vote, are they are more of them African-American or more of them whites, we would want to combine this information with some better information about the overall district population, which
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	A. Yes. Q. There's sampling bias, right? A. And what is preferable about a census is that it minimizes sampling bias, and we have some sampling bias in the ACS which we need to take into account. Q. And that sampling bias means it has confidence intervals or error margins associated with the numbers that are reported in the ACS, correct? A. Yes, and it's based on the sampling procedure. Q. And those confidence intervals are larger if the sample is smaller, correct? A. Yes. Q. So when you're using the ACS data, when you get down to smaller geographic subunits, the margins of error increase; is that correct? A. Yes.	A the we would need to know the we would need to have some sense of the numbers of this i just giving us a percentage, and as you point out, we are basing this on the 2010 decennial census. Just that is those are the, you know, the share of African-Americans in the population, in the voting age population that is being considered here, does not change every year. It is a rather blunt number that comes from the 2010 census. So yeah, the answer to your question is that if we wanted to know for each of the dots on this graph, if we wanted to know is the electorate are the people who are showing up to vote, are they are more of them African-American or more of them whites, we would want to combine this information with some better information about the overall district population, which the ACS does give us. Because as you pointed out, the AC
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	A. Yes. Q. There's sampling bias, right? A. And what is preferable about a census is that it minimizes sampling bias, and we have some sampling bias in the ACS which we need to take into account. Q. And that sampling bias means it has confidence intervals or error margins associated with the numbers that are reported in the ACS, correct? A. Yes, and it's based on the sampling procedure. Q. And those confidence intervals are larger if the sample is smaller, correct? A. Yes. Q. So when you're using the ACS data, when you get down to smaller geographic subunits, the margins of error increase; is that correct? A. Yes. Q. And when you slice down to individual	A the we would need to know the we would need to have some sense of the numbers of this i just giving us a percentage, and as you point out, we are basing this on the 2010 decennial census. Just that is those are the, you know, the share of African-Americans in the population, in the voting age population that is being considered here, does not change every year. It is a rather blunt number that comes from the 2010 census. So yeah, the answer to your question is that if we wanted to know for each of the dots on this graph, if we wanted to know is the electorate are the people who are showing up to vote, are they are more of them African-American or more of them whites, we would want to combine this information with some better information about the overall district population, which the ACS does give us. Because as you pointed out, the AC allows us to make inferences about groups of a certain
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	A. Yes. Q. There's sampling bias, right? A. And what is preferable about a census is that it minimizes sampling bias, and we have some sampling bias in the ACS which we need to take into account. Q. And that sampling bias means it has confidence intervals or error margins associated with the numbers that are reported in the ACS, correct? A. Yes, and it's based on the sampling procedure. Q. And those confidence intervals are larger if the sample is smaller, correct? A. Yes. Q. So when you're using the ACS data, when you get down to smaller geographic subunits, the margins of error increase; is that correct? A. Yes. Q. And when you slice down to individual demographic groups within geographic areas, the confidence	A the we would need to know the we would need to have some sense of the numbers of this i just giving us a percentage, and as you point out, we are basing this on the 2010 decennial census. Just that is those are the, you know, the share of African-Americans in the population, in the voting age population that is being considered here, does not change every year. It is a rather blunt number that comes from the 2010 census. So yeah, the answer to your question is that if we wanted to know for each of the dots on this graph, if we wanted to know is the electorate are the people who are showing up to vote, are they are more of them African-American or more of them whites, we would want to combine this information with some better information about the overall district population, which the ACS does give us. Because as you pointed out, the AC allows us to make inferences about groups of a certain size, and the Census Department is very clear about the
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	A. Yes. Q. There's sampling bias, right? A. And what is preferable about a census is that it minimizes sampling bias, and we have some sampling bias in the ACS which we need to take into account. Q. And that sampling bias means it has confidence intervals or error margins associated with the numbers that are reported in the ACS, correct? A. Yes, and it's based on the sampling procedure. Q. And those confidence intervals are larger if the sample is smaller, correct? A. Yes. Q. So when you're using the ACS data, when you get down to smaller geographic subunits, the margins of error increase; is that correct? A. Yes. Q. And when you slice down to individual demographic groups within geographic areas, the confidence intervals, the error margins increase as well, correct?	A the we would need to know the we would need to have some sense of the numbers of this i just giving us a percentage, and as you point out, we are basing this on the 2010 decennial census. Just that is those are the, you know, the share of African-Americans in the population, in the voting age population that is being considered here, does not change every year. It is a rather blunt number that comes from the 2010 census. So yeah, the answer to your question is that if we wanted to know for each of the dots on this graph, if we wanted to know is the electorate are the people who are showing up to vote, are they are more of them African-American or more of them whites, we would want to combine this information with some better information about the overall district population, which the ACS does give us. Because as you pointed out, the AC allows us to make inferences about groups of a certain size, and the Census Department is very clear about the
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	A. Yes. Q. There's sampling bias, right? A. And what is preferable about a census is that it minimizes sampling bias, and we have some sampling bias in the ACS which we need to take into account. Q. And that sampling bias means it has confidence intervals or error margins associated with the numbers that are reported in the ACS, correct? A. Yes, and it's based on the sampling procedure. Q. And those confidence intervals are larger if the sample is smaller, correct? A. Yes. Q. So when you're using the ACS data, when you get down to smaller geographic subunits, the margins of error increase; is that correct? A. Yes. Q. And when you slice down to individual demographic groups within geographic areas, the confidence intervals, the error margins increase as well, correct? A. That's correct.	A the we would need to know the we would need to have some sense of the numbers of this i just giving us a percentage, and as you point out, we are basing this on the 2010 decennial census. Just that is those are the, you know, the share of African-Americans in the population, in the voting age population that is being considered here, does not change every year. It is a rather blunt number that comes from the 2010 census. So yeah, the answer to your question is that if we wanted to know for each of the dots on this graph, if we wanted to know is the electorate are the people who are showing up to vote, are they are more of them African-American or more of them whites, we would want to combine this information with some better information about the overall district population, which the ACS does give us. Because as you pointed out, the AC allows us to make inferences about groups of a certain size, and the Census Department is very clear about the conditions under which we might choose to use the I mean to use the five-year ACS, those in which we might us
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	A. Yes. Q. There's sampling bias, right? A. And what is preferable about a census is that it minimizes sampling bias, and we have some sampling bias in the ACS which we need to take into account. Q. And that sampling bias means it has confidence intervals or error margins associated with the numbers that are reported in the ACS, correct? A. Yes, and it's based on the sampling procedure. Q. And those confidence intervals are larger if the sample is smaller, correct? A. Yes. Q. So when you're using the ACS data, when you get down to smaller geographic subunits, the margins of error increase; is that correct? A. Yes. Q. And when you slice down to individual demographic groups within geographic areas, the confidence intervals, the error margins increase as well, correct? A. That's correct. Q. Okay. Now, when the federal government	A the we would need to know the we would need to have some sense of the numbers of this i just giving us a percentage, and as you point out, we are basing this on the 2010 decennial census. Just that is those are the, you know, the share of African-Americans in the population, in the voting age population that is being considered here, does not change every year. It is a rather blunt number that comes from the 2010 census. So yeah, the answer to your question is that if we wanted to know for each of the dots on this graph, if we wanted to know is the electorate are the people who are showing up to vote, are they are more of them African-American or more of them whites, we would want to combine this information with some better information about the overall district population, which the ACS does give us. Because as you pointed out, the AC allows us to make inferences about groups of a certain size, and the Census Department is very clear about the conditions under which we might choose to use the I mean to use the five-year ACS, those in which we might us
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	A. Yes. Q. There's sampling bias, right? A. And what is preferable about a census is that it minimizes sampling bias, and we have some sampling bias in the ACS which we need to take into account. Q. And that sampling bias means it has confidence intervals or error margins associated with the numbers that are reported in the ACS, correct? A. Yes, and it's based on the sampling procedure. Q. And those confidence intervals are larger if the sample is smaller, correct? A. Yes. Q. So when you're using the ACS data, when you get down to smaller geographic subunits, the margins of error increase; is that correct? A. Yes. Q. And when you slice down to individual demographic groups within geographic areas, the confidence intervals, the error margins increase as well, correct? A. That's correct. Q. Okay. Now, when the federal government apportions representation in congress amongst the states,	A the we would need to know the we would need to have some sense of the numbers of this i just giving us a percentage, and as you point out, we are basing this on the 2010 decennial census. Just that is those are the, you know, the share of African-Americans in the population, in the voting age population that is being considered here, does not change every year. It is a rather blunt number that comes from the 2010 census. So yeah, the answer to your question is that if we wanted to know for each of the dots on this graph, if we wanted to know is the electorate are the people who are showing up to vote, are they are more of them African-American or more of them whites, we would want to combine this information with some better information about the overall district population, which the ACS does give us. Because as you pointed out, the AC allows us to make inferences about groups of a certain size, and the Census Department is very clear about the conditions under which we might choose to use the I mean to use the five-year ACS, those in which we might us the three-year ACS, or those in which we might want to us

	Page 61		Page 63
1	district is well beyond 20,000. So if the task is to	1	Q. Okay. So in your opinion
2	understand the size of the African-American voting age	2	A. We'll agree on that.
3	population in, say, 2014, we have a tool for that. We	3	Q. Okay. So in your opinion, Ferguson-Florissant
4	have we have something better than the census. We have	4	school district is close to 50/50 black and white in terms
5	something that the United States government invested a lot	5	of the voting age population, right?
6	of money in and that the Census Department is very good	6	A. I think we'll all agree on that.
7	at. They removed all of the interesting for a social	7	Q. I don't know about that, but let's just stick
8	scientist, all of the interesting variables related to	8	with your opinion now. Now, let's assume for a moment
9	income and poverty and so forth, took them out of the	9	that 100 percent of the white voting age population is
10	long-form census, perhaps as a money-saving move, put them	10	registered to vote.
11	into the ACS so that they try to do a very good sample	11	A. Uh-huh.
12	mid-decade of the ACS, so we can get all the information,	12	Q. Okay? So you have 100 registered white voters
13	aggregate it up and understand something about those	13	in this hypothetical jurisdiction.
14	indicators. But we're in a very good position, using the	14	A. Yes.
15	ACS, to understand, for instance in 2012, what is the	15	Q. Now, let's assume that 50 percent of the black
16	African-American voting age population and what is the	16	voting age population is registered to vote. You have 50
17	white voting age population.	17	registered black voters in this jurisdiction.
18	Q. I'm sorry to interrupt. I'm just going to	18	A. These data are available and they're very easy
19	interrupt you, because I think you've misapprehended my	19	to analyze. We have
20	question, and if you want to talk more about the ACS or	20	Q. I'm just sticking with my hypothetical.
21	the decennial with your counsel, that's perfectly fine	21	A. We do have registered voters and we the
22	with me.	22	correlation between at the precinct level between the
23	A. I must have misunderstood the question.	23	registered voters and voting age population is extremely
24	Q. Yeah. My question was not about the decennial	24	high.
25	or the ACS data. My question was about the way that you	25	Q. Okay. Well
	Page 62		Page 64
1	calculate turnout here as a percentage of ballots cast	1	A. There are very few people who are in the VAP
2	divided by registered voters, right? And what I'm trying	2	who are not registered.
3	to get at is you did not attempt well, here, let me	3	Q. Okay.
4	give you a hypothetical. Okay. Let's take a jurisdiction	4	A. So if the question is could it be that
5	with 100 African-Americans of voting age population and	5	registration rates are radically different among
6	100 whites of voting age population, okay? Start there,	6	
7	-:	0	African-Americans and whites, not really.
,	right?	7	African-Americans and whites, not really. Q. Well
8	right? A. Uh-huh.		
	•	7	Q. Well
8	A. Uh-huh.	7 8	Q. Well A. Not from the data I've seen.
8 9	A. Uh-huh. C. So that jurisdiction has rough parity between	7 8 9	Q. WellA. Not from the data I've seen.Q. That wasn't the question that I asked, Dr.
8 9 10	A. Uh-huh. Q. So that jurisdiction has rough parity between blacks and whites in terms of VAP, V-A-P, voting age	7 8 9 10	 Q. Well A. Not from the data I've seen. Q. That wasn't the question that I asked, Dr. Rodden. My question was about my hypothetical, right? So
8 9 10 11	A. Uh-huh. Q. So that jurisdiction has rough parity between blacks and whites in terms of VAP, V-A-P, voting age population.	7 8 9 10 11	 Q. Well A. Not from the data I've seen. Q. That wasn't the question that I asked, Dr. Rodden. My question was about my hypothetical, right? So in my hypothetical, right, where there is a gap in
8 9 10 11 12	 A. Uh-huh. Q. So that jurisdiction has rough parity between blacks and whites in terms of VAP, V-A-P, voting age population. A. Yes. 	7 8 9 10 11 12	 Q. Well A. Not from the data I've seen. Q. That wasn't the question that I asked, Dr. Rodden. My question was about my hypothetical, right? So in my hypothetical, right, where there is a gap in registration rates between whites and blacks, right, you
8 9 10 11 12 13	 A. Uh-huh. Q. So that jurisdiction has rough parity between blacks and whites in terms of VAP, V-A-P, voting age population. A. Yes. Q. Now, it's roughly 50/50 black and white? 	7 8 9 10 11 12 13	Q. Well A. Not from the data I've seen. Q. That wasn't the question that I asked, Dr. Rodden. My question was about my hypothetical, right? So in my hypothetical, right, where there is a gap in registration rates between whites and blacks, right, you have 100 white registered voters and 50 black registered
8 9 10 11 12 13	 A. Uh-huh. Q. So that jurisdiction has rough parity between blacks and whites in terms of VAP, V-A-P, voting age population. A. Yes. Q. Now, it's roughly 50/50 black and white? A. Yeah. 	7 8 9 10 11 12 13	Q. Well A. Not from the data I've seen. Q. That wasn't the question that I asked, Dr. Rodden. My question was about my hypothetical, right? So in my hypothetical, right, where there is a gap in registration rates between whites and blacks, right, you have 100 white registered voters and 50 black registered voters, correct?
8 9 10 11 12 13 14 15	 A. Uh-huh. Q. So that jurisdiction has rough parity between blacks and whites in terms of VAP, V-A-P, voting age population. A. Yes. Q. Now, it's roughly 50/50 black and white? A. Yeah. Q. That's your assessment of correct me if I'm 	7 8 9 10 11 12 13 14 15	Q. Well A. Not from the data I've seen. Q. That wasn't the question that I asked, Dr. Rodden. My question was about my hypothetical, right? So in my hypothetical, right, where there is a gap in registration rates between whites and blacks, right, you have 100 white registered voters and 50 black registered voters, correct? A. Uh-huh.
8 9 10 11 12 13 14 15 16	 A. Uh-huh. Q. So that jurisdiction has rough parity between blacks and whites in terms of VAP, V-A-P, voting age population. A. Yes. Q. Now, it's roughly 50/50 black and white? A. Yeah. Q. That's your assessment of correct me if I'm wrong, but that's essentially your assessment of what the 	7 8 9 10 11 12 13 14 15 16	Q. Well A. Not from the data I've seen. Q. That wasn't the question that I asked, Dr. Rodden. My question was about my hypothetical, right? So in my hypothetical, right, where there is a gap in registration rates between whites and blacks, right, you have 100 white registered voters and 50 black registered voters, correct? A. Uh-huh. Q. Okay. Now, let's assume that half of all
8 9 10 11 12 13 14 15 16 17	 A. Uh-huh. Q. So that jurisdiction has rough parity between blacks and whites in terms of VAP, V-A-P, voting age population. A. Yes. Q. Now, it's roughly 50/50 black and white? A. Yeah. Q. That's your assessment of correct me if I'm wrong, but that's essentially your assessment of what the Ferguson-Florissant school district looks like, right? 	7 8 9 10 11 12 13 14 15 16	Q. Well A. Not from the data I've seen. Q. That wasn't the question that I asked, Dr. Rodden. My question was about my hypothetical, right? So in my hypothetical, right, where there is a gap in registration rates between whites and blacks, right, you have 100 white registered voters and 50 black registered voters, correct? A. Uh-huh. Q. Okay. Now, let's assume that half of all registered voters, both white and black, turn out. So the
8 9 10 11 12 13 14 15 16 17	 A. Uh-huh. Q. So that jurisdiction has rough parity between blacks and whites in terms of VAP, V-A-P, voting age population. A. Yes. Q. Now, it's roughly 50/50 black and white? A. Yeah. Q. That's your assessment of correct me if I'm wrong, but that's essentially your assessment of what the Ferguson-Florissant school district looks like, right? It's about 50/50 black and white; that's your opinion? 	7 8 9 10 11 12 13 14 15 16 17	Q. Well A. Not from the data I've seen. Q. That wasn't the question that I asked, Dr. Rodden. My question was about my hypothetical, right? So in my hypothetical, right, where there is a gap in registration rates between whites and blacks, right, you have 100 white registered voters and 50 black registered voters, correct? A. Uh-huh. Q. Okay. Now, let's assume that half of all registered voters, both white and black, turn out. So the way that you've calculated turnout rates as a percentage
8 9 10 11 12 13 14 15 16 17 18	 A. Uh-huh. Q. So that jurisdiction has rough parity between blacks and whites in terms of VAP, V-A-P, voting age population. A. Yes. Q. Now, it's roughly 50/50 black and white? A. Yeah. Q. That's your assessment of correct me if I'm wrong, but that's essentially your assessment of what the Ferguson-Florissant school district looks like, right? It's about 50/50 black and white; that's your opinion? A. No longer. Its voting age population is an 	7 8 9 10 11 12 13 14 15 16 17 18	Q. Well A. Not from the data I've seen. Q. That wasn't the question that I asked, Dr. Rodden. My question was about my hypothetical, right? So in my hypothetical, right, where there is a gap in registration rates between whites and blacks, right, you have 100 white registered voters and 50 black registered voters, correct? A. Uh-huh. Q. Okay. Now, let's assume that half of all registered voters, both white and black, turn out. So the way that you've calculated turnout rates as a percentage of registered voters, there's parity between whites and
8 9 10 11 12 13 14 15 16 17 18 19 20	 A. Uh-huh. Q. So that jurisdiction has rough parity between blacks and whites in terms of VAP, V-A-P, voting age population. A. Yes. Q. Now, it's roughly 50/50 black and white? A. Yeah. Q. That's your assessment of correct me if I'm wrong, but that's essentially your assessment of what the Ferguson-Florissant school district looks like, right? It's about 50/50 black and white; that's your opinion? A. No longer. Its voting age population is an African-American majority. That is my opinion. 	7 8 9 10 11 12 13 14 15 16 17 18 19 20	Q. Well A. Not from the data I've seen. Q. That wasn't the question that I asked, Dr. Rodden. My question was about my hypothetical, right? So in my hypothetical, right, where there is a gap in registration rates between whites and blacks, right, you have 100 white registered voters and 50 black registered voters, correct? A. Uh-huh. Q. Okay. Now, let's assume that half of all registered voters, both white and black, turn out. So the way that you've calculated turnout rates as a percentage of registered voters, there's parity between whites and blacks, correct?
8 9 10 11 12 13 14 15 16 17 18 19 20 21	 A. Uh-huh. Q. So that jurisdiction has rough parity between blacks and whites in terms of VAP, V-A-P, voting age population. A. Yes. Q. Now, it's roughly 50/50 black and white? A. Yeah. Q. That's your assessment of correct me if I'm wrong, but that's essentially your assessment of what the Ferguson-Florissant school district looks like, right? It's about 50/50 black and white; that's your opinion? A. No longer. Its voting age population is an African-American majority. That is my opinion. Q. Okay. Well, let's just stay then with my 	7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	Q. Well A. Not from the data I've seen. Q. That wasn't the question that I asked, Dr. Rodden. My question was about my hypothetical, right? So in my hypothetical, right, where there is a gap in registration rates between whites and blacks, right, you have 100 white registered voters and 50 black registered voters, correct? A. Uh-huh. Q. Okay. Now, let's assume that half of all registered voters, both white and black, turn out. So the way that you've calculated turnout rates as a percentage of registered voters, there's parity between whites and blacks, correct? A. In your example?
8 9 10 11 12 13 14 15 16 17 18 19 20 21	 A. Uh-huh. Q. So that jurisdiction has rough parity between blacks and whites in terms of VAP, V-A-P, voting age population. A. Yes. Q. Now, it's roughly 50/50 black and white? A. Yeah. Q. That's your assessment of correct me if I'm wrong, but that's essentially your assessment of what the Ferguson-Florissant school district looks like, right? It's about 50/50 black and white; that's your opinion? A. No longer. Its voting age population is an African-American majority. That is my opinion. Q. Okay. Well, let's just stay then with my A. Yeah. 	7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	Q. Well A. Not from the data I've seen. Q. That wasn't the question that I asked, Dr. Rodden. My question was about my hypothetical, right? So in my hypothetical, right, where there is a gap in registration rates between whites and blacks, right, you have 100 white registered voters and 50 black registered voters, correct? A. Uh-huh. Q. Okay. Now, let's assume that half of all registered voters, both white and black, turn out. So the way that you've calculated turnout rates as a percentage of registered voters, there's parity between whites and blacks, correct? A. In your example? Q. Hypothetical, yes.

	Page 65		Page 67
1	A. In your example in which half of	1	include in a footnote.
2	African-Americans are not registered?	2	Q. Okay. So there's no information about
3	Q. Yes.	3	relative registration rates between whites and blacks in
4	A. Sure, that would be the case. This	4	the Ferguson-Florissant school district in your report; is
5	hypothetical is not applicable in the district where there	5	that correct?
6	is no evidence of any asymmetry in registration.	6	A. I would be happy to write a supplemental
7	Q. Didn't ask whether or not it was applicable in	7	report and provide that information if required.
8	the district. I'm just asking you to stick with my	8	Q. That's great. My question is in your report
9	hypothetical for a moment here, Dr. Rodden.	9	is there any information that I can find about relative
10	A. Okay.	10	registration rates between whites and blacks in the
11	Q. So in my hypothetical, right, white voters	11	Ferguson-Florissant school district?
12	outnumber black voters two to one, correct?	12	A. No, I don't think so.
13	A. So we're in a hypothetical where there are 100	13	Q. Okay. What is the what are the comparative
14	white voters, there are 100 sorry, voting age	14	registration rates between whites and blacks in the
15	population, correct? I want to make sure I understand the	15	Ferguson-Florissant school district?
16	hypothetical. So there are 100 voting age whites, there	16	A. I don't have the data in front of me. As I
17	are 100 voting age blacks and there are 100 of the whites	17	said, I would be happy to do that analysis.
18	who are registered and 50 of the African-Americans who are	18	Q. Let's mark this as Rodden Exhibit 5.
19	registered?	19	(Whereupon, Rodden Deposition Exhibit No. 5
20	Q. Yes.	20	was marked for identification.)
21	A. Okay. And the question is?	21	MS. ORMSBY: Are they all the same?
22	Q. Let's assume you have 50 percent turnout among	22	Q. Yes. So this is census data concerning
23	both groups. Calculating turnout the way that you	23	registration rates in the various states, Dr. Rodden,
24	calculate turnout in this report, ballots divided by	24	downloaded from the Census Bureau's website. I would lik
25	registered voters, in that scenario you would have 50	25	you to turn to Missouri. They're in alphabetical order
1	white voters and 25 black voters, correct?	1	here. And what is the registration rate sorry. Let me
2	A. Yes.	2	start that again. The registration rate for people
3	Q. Okay. So in this scenario white voters	3	designated as black alone is 67.1 percent; is that right?
4	outnumber blacks two to one, correct?	4	A. Would you mind telling me the source of this
5	A. White voters on election day?	5	data?
6	Q. Yeah.	6	Q. This is the Census Bureau's this is from
7	A. Showing up to the polls?	7	the Census Bureau's website.
8	Q. Yes.	8	A. So the census collects information from state
9	A. Yes.	9	governments on registration? Is that correct? I'm not
10	Q. Okay. But the way that you calculate turnout	10	just these are
	as ballots divided by registered voters, one wouldn't know	11	Q. Have you heard of the you've heard of the
11			current population survey?
	that looking at this hypothetical, right? You would	12	current population survey:
12	that looking at this hypothetical, right? You would assume that there was parity, even though, in fact, white	12 13	A. Yes.
12 13	3.		
12 13 14	assume that there was parity, even though, in fact, white	13	A. Yes.
12 13 14 15	assume that there was parity, even though, in fact, white voters vastly outnumber black voters on election day,	13 14	A. Yes.Q. And you've heard of the voter registration
12 13 14 15 16	assume that there was parity, even though, in fact, white voters vastly outnumber black voters on election day, correct?	13 14 15	A. Yes. Q. And you've heard of the voter registration supplement
12 13 14 15 16	assume that there was parity, even though, in fact, white voters vastly outnumber black voters on election day, correct? A. Correct.	13 14 15 16	A. Yes. Q. And you've heard of the voter registration supplement A. Yes.
12 13 14 15 16 17	assume that there was parity, even though, in fact, white voters vastly outnumber black voters on election day, correct? A. Correct. Q. Okay. Now, given the way that you calculate	13 14 15 16 17	 A. Yes. Q. And you've heard of the voter registration supplement A. Yes. Q within the current population survey?
12 13 14 15 16 17 18	assume that there was parity, even though, in fact, white voters vastly outnumber black voters on election day, correct? A. Correct. Q. Okay. Now, given the way that you calculate turnout in this report, right, one would need to know	13 14 15 16 17 18	 A. Yes. Q. And you've heard of the voter registration supplement A. Yes. Q within the current population survey? A. This is what this comes from?
12 13 14 15 16 17 18 19	assume that there was parity, even though, in fact, white voters vastly outnumber black voters on election day, correct? A. Correct. Q. Okay. Now, given the way that you calculate turnout in this report, right, one would need to know something about registration rates in order to make the	13 14 15 16 17 18 19	 A. Yes. Q. And you've heard of the voter registration supplement A. Yes. Q within the current population survey? A. This is what this comes from? Q. Yes.
12 13 14 15 16 17 18 19 20 21	assume that there was parity, even though, in fact, white voters vastly outnumber black voters on election day, correct? A. Correct. Q. Okay. Now, given the way that you calculate turnout in this report, right, one would need to know something about registration rates in order to make the inference that there's parity between white voters and	13 14 15 16 17 18 19 20	 A. Yes. Q. And you've heard of the voter registration supplement A. Yes. Q within the current population survey? A. This is what this comes from? Q. Yes. A. Okay. Thank you.
12 13 14 15 16 17 18 19 20 21	assume that there was parity, even though, in fact, white voters vastly outnumber black voters on election day, correct? A. Correct. Q. Okay. Now, given the way that you calculate turnout in this report, right, one would need to know something about registration rates in order to make the inference that there's parity between white voters and black voters on election day, correct?	13 14 15 16 17 18 19 20 21	 A. Yes. Q. And you've heard of the voter registration supplement A. Yes. Q within the current population survey? A. This is what this comes from? Q. Yes. A. Okay. Thank you. Q. Okay. So Missouri, according to the Census Bureau's data for November of 2014, people identifying
11 12 13 14 15 16 17 18 19 20 21 22 23 24	assume that there was parity, even though, in fact, white voters vastly outnumber black voters on election day, correct? A. Correct. Q. Okay. Now, given the way that you calculate turnout in this report, right, one would need to know something about registration rates in order to make the inference that there's parity between white voters and black voters on election day, correct? A. Yes. And in fact, I have collected the data	13 14 15 16 17 18 19 20 21 22	 A. Yes. Q. And you've heard of the voter registration supplement A. Yes. Q within the current population survey? A. This is what this comes from? Q. Yes. A. Okay. Thank you. Q. Okay. So Missouri, according to the Census

	Page 69		Page 71
1	Q. And people identifying themselves as white	1	Court in determining turnout rates in the school district.
2	alone are registered at a rate of 72.2 percent; is that	2	Furthermore, I would like to add that the
3	correct?	3	reason I hesitated for some time in answering your
4	A. Yes.	4	question about Figure 6 is that I have done the ecological
5	Q. So according to the Census Bureau's data for	5	inference analysis both ways using voting age population
6	November of 2014, whites have a higher registration rate	6	as the denominator and using and using registered
7	than blacks by about five points; is that right?	7	voters as the denominator. I thought that through. I did
8	A. Yes.	8	it both ways. The results were identical and it seemed
9	Q. So in Missouri, if we were to find that	9	that the report was already sufficiently long, it wasn't
10	turnout rates between whites and blacks are equal, and	10	necessary to go into that, but again
11	when I say turnout rates, I mean turnout rates the way you	11	Q. But you didn't report that here?
12	calculate them by votes divided by registered voters,	12	A. I did not, in the interest of brevity, but I
13	right? In Missouri, that would not mean that the number	13	would be happy to provide supplemental information on that
14	of whites and blacks on election day are equal, because	14	if that would be useful.
15	there's a disparity in the registration rate, correct, Dr.	15	Q. And when you say that one can't make
16	Rodden?	16	assumptions about the Ferguson-Florissant school district
17	A. I've shown elsewhere in my report that	17	that you've demonstrated that the indicators within the
18	disparities between African-Americans and whites in the	18	Ferguson-Florissant school district are different from
19	state of Missouri are far greater than they are in the	19	Missouri as a whole in terms of disparities, you're
20	Ferguson-Florissant school district. There are several	20	referring to the socioeconomic disparities in one of your
21	socioeconomic indicators on which disparities between	21	rebuttal reports, right?
22	African-Americans and whites are are much smaller in	22	Which political scientists know feed directly
23	the Ferguson-Florissant school district for many other	23	into turnout.
24	categories of the ACS including including educational	24	Q. Okay.
25	outcomes, poverty rates and income. So I would	25	A. And registration behavior.
	Page 70		Page 72
1	Q. My question was not about socioeconomic	1	Q. Okay.
2	disparities and it wasn't about Ferguson-Florissant even	2	A. There are differential people who live in
3	specifically. I just asked a question about Missouri	3	conditions of poverty are less likely to take the effort
4	generally.	4	to become registered and go through the hoops that one
5	A. Oh, I'm sorry.	5	needs to go through to get registered.
6	Q. So given the difference in registration rates	6	Q. There's no data in any of the four reports
7	in Missouri, with whites having a registration rate that's	7	that you presented comparing registration rates in
8	about five points higher than blacks in Missouri, if we	8	Ferguson-Florissant to Missouri as a whole, correct?
9	were to present data that showed that the turnout rate	9	A. That is correct.
10	between whites and blacks in Missouri was equal,	10	Q. And there's no data in any of your four
11	calculating turnout the same way that you do in this	11	reports comparing black registration rates in the
12	report which is votes divided by registered voters, in	12	Ferguson-Florissant school district to black registration
13	fact, the number of white voters on election day would	13	rates in Missouri as a whole, correct?
14 15	exceed the number of black voters on election day,	14	A. That's correct.
	correct, Dr. Rodden?	15	Q. Okay. Let's talk about Figure 6 in your
16 17	A. Yes. Q. Okay.	16 17	report, Page 15, your ecological inference estimates for turnout.
18	A. But I do think it's appropriate for me, in	18	A. Sure.
19	answering that question, to point out to the Court that	19	Q. I notice that there are some years for which
	answering that question, to point out to the court that		you do not present turnout data, like 2005 for instance.
	that the assumption that the Ferguson-Florissant school	1 20	
20	that the assumption that the Ferguson-Florissant school	20	
20 21	district with respect to disparities between	21	A. Correct.
20 21 22	district with respect to disparities between African-Americans and whites is the same as the state of	21 22	A. Correct. Q. Is that right?
20 21 22 23	district with respect to disparities between African-Americans and whites is the same as the state of Missouri is demonstrably a bad assumption, so I would not	21 22 23	A. Correct.Q. Is that right?A. Correct.
20 21 22	district with respect to disparities between African-Americans and whites is the same as the state of	21 22	A. Correct. Q. Is that right?

	Page 73		Page 75
1	Ferguson-Florissant school board are uncontested in some	1	a separate chart, the turnout results from exogenous
2	years, and so no election is held and no voting takes	2	elections?
3	place for the Ferguson-Florissant school board in some	3	A. Did not occur to me to do that.
4	years; is that right?	4	Q. Didn't occur to you. You didn't think that
5	A. That's correct.	5	that would be particularly illuminating for purposes of
6	Q. And because there are no elections for	6	this exercise, right?
7	Ferguson-Florissant school board in those years, you don't	7	A. Not for a graph that is marked ecological
8	have any turnout data to present for those years, correct?	8	inference estimates for African-American and white turnout
9	A. That's correct.	9	for each contested Ferguson-Florissant school board
10	Q. When no election takes place, you just exclude	10	election. I wanted to focus on school board elections
11	those years from your turnout analysis, right?	11	because this case is about school board. I do think
12	A. To do otherwise would be rather would be	12	exogenous races are useful, and I'm sure we will talk
13	hard for me to come up with turnout analysis in an	13	about that later, but it did not occur to me to use the
14	election when there's no	14	exogenous races in the turnout graph presented here. And
15	Q. Well, you don't, for instance, say zero votes	15	on further reflection, it would have been interesting to
16	by whites and zero votes by blacks, so turnout is equal?	16	have done some turnout analysis for those races, but it
17	A. That is correct. I did not do that.	17	didn't occur to me when I was writing this section.
18	Q. All right. And you don't say you don't	18	Q. You would agree, though, that in trying to
19	sort of like try to create some kind of model that tries	19	assess relative turnout rates for Ferguson-Florissant
20	to generate what turnout rates would have been for like	20	school board elections, the endogenous elections are more
21	for hypothetical candidates in those years or anything	21	illuminating than exogenous ones, right?
22	like that, right?	22	A. I would leave it up to the Court to decide
23	A. No.	23	what was more illuminating. Given that this is a lawsuit
24	Q. And you don't, say, take turnout for other	24	about the school board elections, that is where I started.
25	elections that took place during the same year and look at	25	And with more time, I certainly would have been happy to
	Page 74		Page 76
1	the turnout rates within the Ferguson-Florissant school	1	have looked at turnout in these other races.
2	district's precincts and use that as sort of a proxy for	2	Q. Now, this chart for each estimate of black and
3	turnout in the Ferguson-Florissant school board elections	3	white turnout in each election, there's a dot, and lines
4	for which no school board elections took place, right?	4	going up and down from each dot?
5	A. I could have done that. It seemed like that	5	A. Yes.
6	would be it would make for a strange graph to have data	6	Q. Right? Am I correct that the dot represents
7	that come from a different election, a different source	7	what you could call the point estimate for turnout of each
8	for those years, so I did not do that.	8	group in each election?
9	 Q. We call this, in political science analysis, 	9	A. Yes.
10	exogenous elections, right? Those are different kinds of	10	Q. And the lines going up and down from the dots
11	elections than the ones at issue between the parties,	11	are the confidence interval for those estimates; is that
12	right?	12	right?
13	A. That's that's correct.	13	A. Yes.
14	Q. As opposed to endogenous elections, which in	14	Q. Now, again, please correct me if I'm wrong,
15	this case would be the Ferguson-Florissant school board	15	but am I right that the confidence interval is the range
16	elections?	16	within which you have a reasonable certainty as to the
17	A. Yes.	17	actual turnout figure for each group in each election to a
18	Q. Okay. And you didn't include turnout results	18	95 percent degree of confidence?
19	from exogenous elections because you thought it would be	19	A. Yes. That's not a bad summary.
20	kind of, I think you put it weird, to mix and match those	20	Q. And that 95 percent degree of confidence,
21	numbers?	21	that's the level of certainty that's typically associated
22	A. I certainly could have I could have done it	22	in peer-reviewed political science research, correct?
23 24	and made a separate graph, or simply marked those with a different color, but it did not occur to me to do that.	23	A. It is. There is a lot of debate about whether
25	Q. And you didn't present them separately in like	25	this is how we should continue to operate, but this is what social scientists typically do.
23	a. This you didn't present them separately in like	23	a. social scientists typically do.

Page 77 1 Q. It's consistent with generally accepted 2 standards in the field? 3 A. Yes, it is. 4 Q. Now, the relationship between the point 5 estimate and the confidence interval is that the point 6 estimate is the median of the confidence interval, 7 correct? 8 A. Yes. Page 77 1 referred to of testing statistical significance beyong just looking at the confidence intervals? A. I did not, right. Q. And your when the confidence interval 5 turnout between blacks and whites in a particular election, you're saying in this case I'm sorry 7 this report, that as a statistical matter, they're 8 essentially indistinct; is that right?	age 79 ond
2 standards in the field? 2 just looking at the confidence intervals? 3 A. Yes, it is. 4 Q. Now, the relationship between the point 5 estimate and the confidence interval is that the point 6 estimate is the median of the confidence interval, 7 correct? 2 just looking at the confidence intervals? 4 Q. And your when the confidence interval 5 turnout between blacks and whites in a particular 6 election, you're saying in this case I'm sorry 7 this report, that as a statistical matter, they're	Jilu
3 A. Yes, it is. 4 Q. Now, the relationship between the point 5 estimate and the confidence interval is that the point 6 estimate is the median of the confidence interval, 7 correct? 3 A. I did not, right. 4 Q. And your when the confidence interval 5 turnout between blacks and whites in a particular 6 election, you're saying in this case I'm sorry 7 this report, that as a statistical matter, they're	
Q. Now, the relationship between the point 5 estimate and the confidence interval is that the point 6 estimate is the median of the confidence interval, 7 correct? 4 Q. And your when the confidence interval 5 turnout between blacks and whites in a particular 6 election, you're saying in this case I'm sorry 7 this report, that as a statistical matter, they're	
5 estimate and the confidence interval is that the point 6 estimate is the median of the confidence interval, 7 correct? 5 turnout between blacks and whites in a particula 6 election, you're saying in this case I'm sorry 7 this report, that as a statistical matter, they're	ls for
6 estimate is the median of the confidence interval, 7 correct? 6 election, you're saying in this case I'm sorry 7 this report, that as a statistical matter, they're	
7 correct? 7 this report, that as a statistical matter, they're	
TO BE USE THE TOTAL PROPERTY OF THE PROPERTY O	
9 Q. And we don't know to the same level of 9 A. Oh, I'm saying they're indistinct in 2012, 13	
10 precision that we talked about earlier, that 95 percent, 10 and 14.	
11 where, within the confidence interval, the actual value 11 Q. And the reason you're saying they're	
12 lies, correct? 12 A. They're quite distinct in 2011 and 2015.	
13 A. We are we have 95 percent confidence that 13 Q. Oh, right. No, I'm not saying that you're	:
14 it falls somewhere in that in that range, but the point 14 saying they are indistinct every time. I'm saying	
15 estimate is the one that we typically talk about and 15 when the confidence intervals overlap	
16 report in our research, although a case could be made for 16 A. In those cases.	
17 reporting nearly the range. It depends on the application 17 Q. If you wouldn't mind. I know we've talk	ed
18 one has in mind. 18 over each other a lot, and I apologize for the tim	es that
19 Q. Okay. So could you turn to Page 16, the next 19 I've done it. I just want to get the record clear h	iere.
page in your report, Paragraph 26. And I'm looking at the 20 In 12, 13 and 14 when you say that the turnout	rates
21 third sentence that starts with "When one of the dots." 21 between blacks and whites are statistically indis	tinct,
22 And you write here, "When one of the dots is only slightly 22 it's because the confidence intervals between the	е
23 higher than the one of the opposite color and sits within 23 estimates for black and white turnout in each of	those
24 the confidence interval of the other, we cannot say with 24 years overlaps significantly, correct?	
25 confidence that the estimates of black and white turnout 25 A. I want to make sure I'm not misstating. Will	
Page 78 Pa	age 80
1 are different." 1 you answer just ask the question one more time?	
2 Did I read that accurately? 2 Q. Sure. When you say in 2012, 2013 and 20	014
2 Did I read that accurately? 2 Q. Sure. When you say in 2012, 2013 and 20	inct
2 Did I read that accurately? 2 Q. Sure. When you say in 2012, 2013 and 20 3 A. Yes. 3 that black and white turnout is statistically indist	inct ence
2 Did I read that accurately? 3 A. Yes. 4 Q. Okay. So is it fair to say that what you mean 2 Q. Sure. When you say in 2012, 2013 and 20 3 that black and white turnout is statistically indist 4 in each of those years, that's because the confidence.	inct ence
2 Did I read that accurately? 3 A. Yes. 4 Q. Okay. So is it fair to say that what you mean 5 here is that where the point estimate for turnout of one 2 Q. Sure. When you say in 2012, 2013 and 20 3 that black and white turnout is statistically indist 4 in each of those years, that's because the confide 5 intervals for your turnout estimates for each of the	inct ence
2 Did I read that accurately? 3 A. Yes. 4 Q. Okay. So is it fair to say that what you mean 5 here is that where the point estimate for turnout of one 6 group falls within the confidence interval of turnout for 6 groups overlaps in each of those years, correct?	inct ence
2 Did I read that accurately? 3 A. Yes. 4 Q. Okay. So is it fair to say that what you mean 5 here is that where the point estimate for turnout of one 6 group falls within the confidence interval of turnout for 7 another group, you cannot say with statistical certainty 2 Q. Sure. When you say in 2012, 2013 and 20 3 that black and white turnout is statistically indist 4 in each of those years, that's because the confidence interval of turnout for 6 groups overlaps in each of those years, correct? 7 A. It's because the point estimate lies within	inct ence nose
2 Did I read that accurately? 3 A. Yes. 4 Q. Okay. So is it fair to say that what you mean 5 here is that where the point estimate for turnout of one 6 group falls within the confidence interval of turnout for 7 another group, you cannot say with statistical certainty 8 whether there's any difference between the turnout of the 2 Q. Sure. When you say in 2012, 2013 and 20 3 that black and white turnout is statistically indist 4 in each of those years, that's because the confidence intervals for your turnout estimates for each of the groups overlaps in each of those years, correct? 7 A. It's because the point estimate lies within the confidence interval.	inct ence nose
2 Did I read that accurately? 3 A. Yes. 4 Q. Okay. So is it fair to say that what you mean 5 here is that where the point estimate for turnout of one 6 group falls within the confidence interval of turnout for 7 another group, you cannot say with statistical certainty 8 whether there's any difference between the turnout of the 9 two groups; is that right, Dr. Rodden? 2 Q. Sure. When you say in 2012, 2013 and 20 3 that black and white turnout is statistically indist in each of those years, that's because the confidence interval of turnout for groups overlaps in each of those years, correct? 7 A. It's because the point estimate lies within 8 the confidence interval. 9 Q. Got it. Okay. So in 2014, for instance, the	inct ence nose
2	inct ence nose
2 Did I read that accurately? 3 A. Yes. 4 Q. Okay. So is it fair to say that what you mean 5 here is that where the point estimate for turnout of one 6 group falls within the confidence interval of turnout for 7 another group, you cannot say with statistical certainty 8 whether there's any difference between the turnout of the 9 two groups; is that right, Dr. Rodden? 10 A. Yes, but I should clarify that this is a 11 visual display and this is rule of thumb that is meant to 12 assist the reader in wading through a visual display. 13 Q. Uh-huh. 2 Q. Sure. When you say in 2012, 2013 and 20 3 that black and white turnout is statistically indist in each of those years, that's because the confidence intervals for your turnout estimates for each of the groups overlaps in each of those years, correct? 7 A. It's because the point estimate lies within the confidence interval. 9 Q. Got it. Okay. So in 2014, for instance, th point estimate for white turnout is higher than the estimate for black turnout? 12 A. Yes. 13 Q. Uh-huh. 13 Q. But you do not, from that basis, opine that	inct ence nose e e e point
2 Did I read that accurately? 3 A. Yes. 4 Q. Okay. So is it fair to say that what you mean 5 here is that where the point estimate for turnout of one 6 group falls within the confidence interval of turnout for 7 another group, you cannot say with statistical certainty 8 whether there's any difference between the turnout of the 9 two groups; is that right, Dr. Rodden? 10 A. Yes, but I should clarify that this is a 11 visual display and this is rule of thumb that is meant to 12 assist the reader in wading through a visual display. 13 Q. Uh-huh. 14 A. What I did not do is is is conduct a 2 Q. Sure. When you say in 2012, 2013 and 20 3 that black and white turnout is statistically indist in each of those years, that's because the confidence intervals for your turnout estimates for each of th groups overlaps in each of those years, correct? A. It's because the point estimate lies within the confidence interval. 9 Q. Got it. Okay. So in 2014, for instance, th point estimate for white turnout is higher than the estimate for black turnout? A. Yes. Q. But you do not, from that basis, opine that white turnout is higher than black turnout. You seem that the statistically indist in each of those years, that's because the confidence interval. 9 Q. Got it. Okay. So in 2014, for instance, th point estimate for white turnout is higher than the estimate for black turnout? A. Yes. Q. But you do not, from that basis, opine that white turnout is higher than black turnout. You seem that the statistically indist in each of those years, that's because the confidence interval. So another group, you cannot say with statistical certainty the confidence interval. 8 D. Got it. Okay. So in 2014, for instance, th point estimate for white turnout is higher than the estimate for black turnout? A. Yes.	inct ence nose e e ne point
2 Did I read that accurately? 3 A. Yes. 4 Q. Okay. So is it fair to say that what you mean 5 here is that where the point estimate for turnout of one 6 group falls within the confidence interval of turnout for 7 another group, you cannot say with statistical certainty 8 whether there's any difference between the turnout of the 9 two groups; is that right, Dr. Rodden? 10 A. Yes, but I should clarify that this is a 11 visual display and this is rule of thumb that is meant to 12 assist the reader in wading through a visual display. 13 Q. Uh-huh. 14 A. What I did not do is is is conduct a 15 separate test to analyze whether the whether these were 16 Q. Sure. When you say in 2012, 2013 and 20 14 that black and white turnout is statistically indist 16 tin each of those years, that's because the confidence 16 groups overlaps in each of those years, correct? 17 A. It's because the point estimate lies within 18 the confidence interval. 19 Q. Got it. Okay. So in 2014, for instance, th 10 point estimate for white turnout is higher than the 11 estimate for black turnout? 12 A. Yes. 13 Q. But you do not, from that basis, opine that 14 white turnout is higher than black turnout. You seem the point they're statistically indistinct because the point	inct ence nose e ne point at say
2 Q. Sure. When you say in 2012, 2013 and 20 3 A. Yes. 3 that black and white turnout is statistically indist 4 Q. Okay. So is it fair to say that what you mean 5 here is that where the point estimate for turnout of one 6 group falls within the confidence interval of turnout for 7 another group, you cannot say with statistical certainty 8 whether there's any difference between the turnout of the 9 two groups; is that right, Dr. Rodden? 10 A. Yes, but I should clarify that this is a 11 visual display and this is rule of thumb that is meant to 12 assist the reader in wading through a visual display. 13 Q. Uh-huh. 14 A. What I did not do is is is conduct a 15 separate test to analyze whether the whether these were 16 statistically distinguishable from one another. 2 Q. Sure. When you say in 2012, 2013 and 20 1 that black and white turnout is statistically indist 4 in each of those years, that's because the confidence intervals for your turnout estimates for each of th 4 groups overlaps in each of those years, correct? A. It's because the point estimate lies within the confidence interval. 9 Q. Got it. Okay. So in 2014, for instance, th point estimate for white turnout is higher than the estimate for black turnout? A. Yes. Q. But you do not, from that basis, opine that white turnout is higher than black turnout. You s they're statistically indistinct because the point estimates for each lie within the confidence interval.	inct ence nose e ne point at say
Did I read that accurately? A. Yes. O. Okay. So is it fair to say that what you mean here is that where the point estimate for turnout of one group falls within the confidence interval of turnout for another group, you cannot say with statistical certainty whether there's any difference between the turnout of the two groups; is that right, Dr. Rodden? A. Yes, but I should clarify that this is a visual display and this is rule of thumb that is meant to assist the reader in wading through a visual display. A. What I did not do is is is conduct a statistically distinguishable from one another. Did I read that accurately? A. Yes. C. Sure. When you say in 2012, 2013 and 2 that black and white turnout is statistically indist that black and white turnout is statistically indist in each of those years, that's because the confidence intervals for your turnout estimates for each of the groups overlaps in each of those years, correct? A. It's because the point estimate lies within the confidence interval. Q. Got it. Okay. So in 2014, for instance, th point estimate for white turnout is higher than the estimate for black turnout? A. Yes. C. But you do not, from that basis, opine that white turnout is higher than black turnout. You se they're statistically indistinct because the point estimates for each lie within the confidence interval.	inct ence nose e ne point at say
2 Did I read that accurately? 3 A. Yes. 4 Q. Okay. So is it fair to say that what you mean 5 here is that where the point estimate for turnout of one 6 group falls within the confidence interval of turnout for 7 another group, you cannot say with statistical certainty 8 whether there's any difference between the turnout of the 9 two groups; is that right, Dr. Rodden? 10 A. Yes, but I should clarify that this is a 11 visual display and this is rule of thumb that is meant to 12 assist the reader in wading through a visual display. 13 Q. Uh-huh. 14 A. What I did not do is is is conduct a 15 separate test to analyze whether the whether these were 16 statistically distinguishable from one another. 17 Q. Uh-huh. 18 A. The a better thing to do than to simply 2 Q. Sure. When you say in 2012, 2013 and 20 that black and white turnout is statistically indist 16 tin each of those years, that's because the confidence 17 another group, you cannot say with statistically distinguishable from one another. 18 A. The a better thing to do than to simply 2 Q. Sure. When you say in 2012, 2013 and 20 that black and white turnout is statistically indist 16 in each of those years, that's because the confide 16 intervals for your turnout estimates for each of the statistically indistinct lies within 18 the confidence interval. 9 Q. Got it. Okay. So in 2014, for instance, th 10 point estimate for white turnout is higher than the estimate for black turnout? 11 A. Yes. 12 A. Yes. 13 Q. But you do not, from that basis, opine that white turnout is higher than black turnout. You set they're statistically indistinct because the point estimates for each lie within the confidence interval. 16 estimates for each lie within the confidence interval. 17 Q. Uh-huh. 18 A. The a better thing to do than to simply	inct ence nose e ne point at say
Did I read that accurately? A. Yes. Q. Okay. So is it fair to say that what you mean bere is that where the point estimate for turnout of one group falls within the confidence interval of turnout for another group, you cannot say with statistical certainty whether there's any difference between the turnout of the two groups; is that right, Dr. Rodden? A. Yes, but I should clarify that this is a visual display and this is rule of thumb that is meant to A. What I did not do is is is conduct a Separate test to analyze whether the whether these were Statistically distinguishable from one another. A. The a better thing to do than to simply look at the confidence interval as that black and white turnout is statistically indistinct because the confidence interval in each of those years, that's because the confide intervals for your turnout estimates for each of the groups overlaps in each of those years, correct? A. It's because the point estimate lies within the confidence interval. 9 Q. Got it. Okay. So in 2014, for instance, the point estimate for white turnout is higher than the estimate for black turnout? 11 A. Yes. Q. But you do not, from that basis, opine that white turnout is higher than black turnout. You set they're statistically indistinct because the point estimates for each lie within the confidence interval. 12 A. Yes. 13 Q. Uh-huh. 14 A. The a better thing to do than to simply 15 In a chief those years, that's because the confidence interval in each of those years, that's because the confidence interval. 16 So in 2014, for instance, the point estimate for white turnout is higher than the estimate for black turnout? A. Yes. Q. But you do not, from that basis, opine that white turnout is higher than black turnout. You set they're statistically indistinct because the point estimate for each lie within the confidence interval. 18 A. As I yeah, as I said before, this is a it's a rule of thumb that I apply in	inct ence nose e ne point at say
Did I read that accurately? A. Yes. O. Okay. So is it fair to say that what you mean bere is that where the point estimate for turnout of one group falls within the confidence interval of turnout for another group, you cannot say with statistical certainty whether there's any difference between the turnout of the two groups; is that right, Dr. Rodden? A. Yes, but I should clarify that this is a visual display and this is rule of thumb that is meant to assist the reader in wading through a visual display. A. What I did not do is is is conduct a Separate test to analyze whether the whether these were statistically distinguishable from one another. A. The a better thing to do than to simply way that I described would be to do that, but I was I Did I read that accurately? C. Sure. When you say in 2012, 2013 and 2 that black and white turnout is statistically indist that black and white turnout is statistically indist in each of those years, that's because the confide in each of those years, that's because the confide groups overlaps in each of those years, correct? A. It's because the point estimate lies within the confidence interval. 9 Q. Got it. Okay. So in 2014, for instance, th point estimate for white turnout is higher than the estimate for black turnout? A. Yes. Q. But you do not, from that basis, opine that white turnout is higher than black turnout. You s they're statistically indistinct because the point estimates for each lie within the confidence interval A. As I yeah, as I said before, this is a this is a it's a rule of thumb that I apply in presenting the data here. I would I would just	inct ence nose e e point at say
Did I read that accurately? A. Yes. Q. Okay. So is it fair to say that what you mean here is that where the point estimate for turnout of one group falls within the confidence interval of turnout for another group, you cannot say with statistical certainty whether there's any difference between the turnout of the two groups; is that right, Dr. Rodden? A. Yes, but I should clarify that this is a wisual display and this is rule of thumb that is meant to assist the reader in wading through a visual display. A. Wat I did not do is is is conduct a separate test to analyze whether the whether these were statistically distinguishable from one another. Q. Uh-huh. A. The a better thing to do than to simply look at the confidence interval and draw inferences in the was telling the reader that one can get a pretty good 2. Sure. When you say in 2012, 2013 and 20 that black and white turnout is statistically indistinct because the confidence intervol. 3. that black and white turnout is statistically indistinct because the confidence interval. 4. Chash and white turnout estimates for each of those years, that's because the confidence interval. 5. A. It's because the point estimate lies within the confidence interval. 8. A. It's because the point estimate for black turnout. 8. A. It's because the point estimate for black turnout is higher than the confidence interval. 9. Q. Got it. Okay. So in 2014, for instance, the point estimate for black turnout? A. Yes. Q. But you do not, from that basis, opine that white turnout is higher than black turnout. You suffice they're statistically indistinct because the point estimates for each lie within the confidence interval. 10. But you do not, from that basis, opine that white turnout is higher than black turnout. You suffice they're statistically indistinct because the point estimate for each lie within the confidence interval. 11. Chash and they is can be for a condition of the confidence interval. 12. A. Yes. 13. Q. Uh-huh. 14. A. Was I	inct ence nose e e point at say
Did I read that accurately? A. Yes. Q. Okay. So is it fair to say that what you mean here is that where the point estimate for turnout of one group falls within the confidence interval of turnout for another group, you cannot say with statistical certainty whether there's any difference between the turnout of the two groups; is that right, Dr. Rodden? A. Yes, but I should clarify that this is a visual display and this is rule of thumb that is meant to assist the reader in wading through a visual display. A. What I did not do is is is conduct a separate test to analyze whether the whether these were statistically distinguishable from one another. Q. Uh-huh. A. The a better thing to do than to simply look at the confidence interval and draw inferences in the was telling the reader that one can get a pretty good sense of the data by doing that rule of thumb analysis a. Ves. Q. Sure. When you say in 2012, 2013 and 20 that black and white turnout is statistically indist in each of those years, that's because the confide intervals for your turnout estimates for each of the groups overlaps in each of those years, correct? A. It's because the point estimate lies within the confidence interval. Q. Got it. Okay. So in 2014, for instance, th point estimate for white turnout is higher than the estimate for black turnout? A. Yes. Q. But you do not, from that basis, opine that white turnout is higher than black turnout. You is they're statistically indistinct because the point estimates for each lie within the confidence interval they're statistically indistinct because the point estimates for each lie within the confidence interval they're statistically indistinct because the point estimates for each lie within the confidence interval they're statistically indistinct because the point estimates for each lie within the confidence interval they're statistically indistinct because the point estimate for black turnout. You set they're statistically indistinct because the point estimate for black turnout	inct ence nose e ne point at say vals for
Did I read that accurately? A. Yes. Q. Okay. So is it fair to say that what you mean here is that where the point estimate for turnout of one group falls within the confidence interval of turnout for another group, you cannot say with statistical certainty whether there's any difference between the turnout of the two groups; is that right, Dr. Rodden? A. Yes, but I should clarify that this is a can be reader in wading through a visual display. Q. Uh-huh. A. Was I did not do is is is conduct a separate test to analyze whether the whether these were statistically distinguishable from one another. Q. Uh-huh. A. The a better thing to do than to simply way that I described would be to do that, but I was I was telling the reader that one can get a pretty good a Ves. Q. Sure. When you say in 2012, 2013 and 20 that black and white turnout is statistically indistical place in each of those years, that's because the confider in each of those years, that's because the confider in each of those years, that's because the confider in each of those years, that's because the confider fine each of those years, that's because the confider cach of those years, that's because the confider another turnout estimates for each of those years, that's because the confider A. It's because the point estimate lies within the confidence interval. Q. Got it. Okay. So in 2014, for instance, the point estimate for black turnout? A. Yes. Q. But you do not, from that basis, opine that white turnout is higher than black turnout. You such they're statistically indistinct because the point estimates for each lie within the confidence interval. A. As I yeah, as I said before, this is a this is a it's a rule of thumb that I apply in presenting the data here. I would I would just look, I would be clear with the reader, the point estimate.	inct ence nose e ne point at say vals for

	Page 81		Page 83
1	estimates for black and white turnout fall within the	1	A. I hope I gave you the right data.
2	confidence intervals for each, and therefore you conclude	2	Q. All right.
3	that they are statistically indistinguishable, correct?	3	A. But yes.
4	A. That's correct.	4	Q. Okay. Why don't we take a break here, and
5	Q. And failing to report those confidence	5	when we get back, I want to ask you a few questions about
6	intervals here, just reporting the point estimates, would	6	this.
7	that be consistent with generally accepted standards in	7	A. Okay.
8	political science for peer review?	8	(Whereupon, a recess was taken from 11:23 to
9	A. No. We like confidence intervals.	9	11:36 A.M.)
10	Q. All right. I want to show you a chart. We	10	Q. So Dr. Rodden, could we turn to Page 16 of
11	can mark this as Rodden Exhibit 6.	11	your report and Paragraph 26. Looking at the third to
12	(Whereupon, Rodden Deposition Exhibit No. 6	12	last sentence, a little more than halfway down that starts
13	was marked for identification.)	13	with "In six of the cases." Do you see that?
14	Q. Can we do 6 and 7?	14	A. Uh-huh.
15	(Whereupon, Rodden Deposition Exhibit No. 7	15	MS. ORMSBY: Where? I'm sorry.
16	was marked for identification.)	16	Q. Paragraph 26, four lines from the bottom.
17	Q. We'll just go over this quickly and then take	17	A. Yes.
18	a little break. This is a spreadsheet from an Excel file	18	Q. Okay. You write, "In six of the cases white
19	that your counsel sent to us in response to a discovery	19	turnout estimates clearly surpass black turnout estimates,
20	request. I believe that this contains the numerical	20	2001, 2003, 2006, 2009, 2011 and 2015. In the other six
21	values for what's represented in Figure 6. Does that look	21	election years turnout differences between the two racial
22	correct to you, Dr. Rodden?	22	groups are indistinguishable."
23	A. It does, yes.	23	Did I read that correctly?
24	Q. Okay. And I've given you what's marked as	24	A. Yes.
25	Figure 7 I mean Rodden Exhibit 7. It's the same	25	Q. Okay. So there were 12 elections for which
	Page 82		Page 84
1	information, but we formatted it so it's a little easier	1	you report results in terms of turnout for
2	to read. The columns and the rows are shaded.	2	Ferguson-Florissant school board between 2000 and 2015,
3	A. Okay.	3	correct?
4	Q. I just wanted to provide that to you to make	4	A. Looks like it, yes.
5	it easier for you when I ask you some questions going	5	Q. And in six out of the 12 of those elections,
6	forward, but you can refer to either one. But does that	6	white turnout exceeded black turnout at a statistically
7	look accurate, that 7 is the same data as 6?	7	significant to a statistically significant degree,
8	A. Yes. I'll accept that it is.	8	correct?
9	Q. Okay. Now, to just understand what's going on	9	A. Yes.
10	in these charts, the second column is your point estimate	10	Q. So another way of saying that is that in half
11	for black turnout in each collection in each election,	11	of the elections since 2000, white turnout exceeded black
	in oddi diodion		turnout to a statistically significant degree, correct?
12	right?	1 12	
12 13	right? A. I believe so. ves.	12	
13	A. I believe so, yes.	13	A. Yes.
13 14	A. I believe so, yes.Q. And the third column is your point estimate	13 14	A. Yes.Q. And in the other six elections you do not find
13 14 15	A. I believe so, yes.Q. And the third column is your point estimate for white turnout in each election?	13 14 15	A. Yes. Q. And in the other six elections you do not find a statistically significant difference between black and
13 14 15 16	 A. I believe so, yes. Q. And the third column is your point estimate for white turnout in each election? A. Oh, yes. Yes. 	13 14 15 16	 A. Yes. Q. And in the other six elections you do not find a statistically significant difference between black and white turnout, correct?
13 14 15 16 17	 A. I believe so, yes. Q. And the third column is your point estimate for white turnout in each election? A. Oh, yes. Yes. Q. And the next two columns represent the end 	13 14 15 16 17	 A. Yes. Q. And in the other six elections you do not find a statistically significant difference between black and white turnout, correct? A. That's correct.
13 14 15 16 17	 A. I believe so, yes. Q. And the third column is your point estimate for white turnout in each election? A. Oh, yes. Yes. Q. And the next two columns represent the end points for the confidence intervals for black turnout in 	13 14 15 16 17 18	 A. Yes. Q. And in the other six elections you do not find a statistically significant difference between black and white turnout, correct? A. That's correct. Q. So is it fair to say that since going back to
13 14 15 16 17 18 19	 A. I believe so, yes. Q. And the third column is your point estimate for white turnout in each election? A. Oh, yes. Yes. Q. And the next two columns represent the end points for the confidence intervals for black turnout in each election, correct? 	13 14 15 16 17 18 19	 A. Yes. Q. And in the other six elections you do not find a statistically significant difference between black and white turnout, correct? A. That's correct. Q. So is it fair to say that since going back to 2000, in 12 elections over 15 years, black turnout has
13 14 15 16 17 18 19 20	 A. I believe so, yes. Q. And the third column is your point estimate for white turnout in each election? A. Oh, yes. Yes. Q. And the next two columns represent the end points for the confidence intervals for black turnout in each election, correct? A. Yes. 	13 14 15 16 17 18 19 20	 A. Yes. Q. And in the other six elections you do not find a statistically significant difference between black and white turnout, correct? A. That's correct. Q. So is it fair to say that since going back to 2000, in 12 elections over 15 years, black turnout has never exceeded white turnout to a statistically
13 14 15 16 17 18 19 20 21	 A. I believe so, yes. Q. And the third column is your point estimate for white turnout in each election? A. Oh, yes. Yes. Q. And the next two columns represent the end points for the confidence intervals for black turnout in each election, correct? A. Yes. Q. And the last two columns represent the end 	13 14 15 16 17 18 19 20 21	 A. Yes. Q. And in the other six elections you do not find a statistically significant difference between black and white turnout, correct? A. That's correct. Q. So is it fair to say that since going back to 2000, in 12 elections over 15 years, black turnout has never exceeded white turnout to a statistically significant degree?
13 14 15 16 17 18 19 20 21 22	 A. I believe so, yes. Q. And the third column is your point estimate for white turnout in each election? A. Oh, yes. Yes. Q. And the next two columns represent the end points for the confidence intervals for black turnout in each election, correct? A. Yes. Q. And the last two columns represent the end points for the confidence intervals of white turnout in 	13 14 15 16 17 18 19 20 21 22	 A. Yes. Q. And in the other six elections you do not find a statistically significant difference between black and white turnout, correct? A. That's correct. Q. So is it fair to say that since going back to 2000, in 12 elections over 15 years, black turnout has never exceeded white turnout to a statistically significant degree? A. Not quite.
13 14 15 16 17 18 19 20 21 22 23	 A. I believe so, yes. Q. And the third column is your point estimate for white turnout in each election? A. Oh, yes. Yes. Q. And the next two columns represent the end points for the confidence intervals for black turnout in each election, correct? A. Yes. Q. And the last two columns represent the end points for the confidence intervals of white turnout in each election, correct? 	13 14 15 16 17 18 19 20 21 22 23	 A. Yes. Q. And in the other six elections you do not find a statistically significant difference between black and white turnout, correct? A. That's correct. Q. So is it fair to say that since going back to 2000, in 12 elections over 15 years, black turnout has never exceeded white turnout to a statistically significant degree? A. Not quite. Q. How have I stated that incorrectly?
13 14 15 16 17 18 19 20 21 22	 A. I believe so, yes. Q. And the third column is your point estimate for white turnout in each election? A. Oh, yes. Yes. Q. And the next two columns represent the end points for the confidence intervals for black turnout in each election, correct? A. Yes. Q. And the last two columns represent the end points for the confidence intervals of white turnout in 	13 14 15 16 17 18 19 20 21 22	 A. Yes. Q. And in the other six elections you do not find a statistically significant difference between black and white turnout, correct? A. That's correct. Q. So is it fair to say that since going back to 2000, in 12 elections over 15 years, black turnout has never exceeded white turnout to a statistically significant degree? A. Not quite.

	Page 85		Page 87
1	which it was very close and it was not quite, so the	1	the two most recent elections in which white turnout
2	answer is yes, if I remember how you phrased it, yes.	2	clearly exceeds black turnout are the 2011 and 2015
3	Q. So yes, black turnout has never exceeded white	3	elections, correct?
4	turnout in the elections that you've analyzed to a	4	A. Yes.
5	statistically significant degree?	5	Q. And you attribute that, in part, to the
6	A. Correct.	6	mayoral elections in Florissant in each of those years,
7	Q. Okay. The last sentence in this paragraph on	7	correct?
8	Page 16 is, "In three of these cases the point estimates	8	A. I do, but I would not claim that that is the
9	for African-American turnout are actually higher, though	9	only reason. I don't really know. I find this puzzling.
10	the difference is not quite statistically significant."	10	Q. So you don't know why turnout for whites is
11	A. That's correct.	11	statistically significantly higher in 2011 and 2015 than
12	Q. I read that right?	12	for blacks?
13	A. Yes.	13	A. I've made the case that it is the thing
14	Q. Now, if we look at your point estimates, and	14	that is different about these about these races that is
15	you can look at, you know, the spreadsheet or whatever,	15	most obvious is the presence of a competitive mayoral
16	black turnout only exceeds white turnout in terms of the	16	election in the community that has a larger white
17	point estimate one time; isn't that right, in 2012?	17	population.
18	A. Yes.	18	Q. And
19	Q. So when you wrote here that the point estimate	19	A. And this is
20	for African-American turnout was higher than for white	20	Q I'm asking Florissant.
21	turnout three times, that was incorrect?	21	A. And this is just based on my own knowledge of
22	A. That is incorrect. I would only supplement by	22	having grown up there, that the very white neighborhood of
23	saying that I conducted this analysis using two different	23	old town Florissant is a place where these particular
24	denominators, as I mentioned before, one being the voting	24	candidates generated a great deal of excitement. And when
25	age population and one being registered voters, and it's	25	you look at the scatter plots of the kind we were looking
			, ,
	Page 86		7 00
	rage 80		Page 88
1	possible that when I was writing, I was imagining I would	1	Page 88 at just a little bit earlier, the kinds of scatter plots
1 2	_	1 2	
	possible that when I was writing, I was imagining I would	1	at just a little bit earlier, the kinds of scatter plots
2	possible that when I was writing, I was imagining I would put the other graph in the paper, so I apologize for that	2	at just a little bit earlier, the kinds of scatter plots that were in Figure 5, one sees a little bit of what's
2	possible that when I was writing, I was imagining I would put the other graph in the paper, so I apologize for that mis that misrepresentation at the end of Paragraph 23.	2	at just a little bit earlier, the kinds of scatter plots that were in Figure 5, one sees a little bit of what's going on; that in the left-hand side of the scatter plot
2 3 4	possible that when I was writing, I was imagining I would put the other graph in the paper, so I apologize for that mis that misrepresentation at the end of Paragraph 23. Q. 26 you mean?	2 3 4	at just a little bit earlier, the kinds of scatter plots that were in Figure 5, one sees a little bit of what's going on; that in the left-hand side of the scatter plot we see we see that some of these old town Florissant
2 3 4 5	possible that when I was writing, I was imagining I would put the other graph in the paper, so I apologize for that mis that misrepresentation at the end of Paragraph 23. Q. 26 you mean? A. Yes, 26.	2 3 4 5	at just a little bit earlier, the kinds of scatter plots that were in Figure 5, one sees a little bit of what's going on; that in the left-hand side of the scatter plot we see we see that some of these old town Florissant places have really high turnout in those elections.
2 3 4 5 6	possible that when I was writing, I was imagining I would put the other graph in the paper, so I apologize for that mis that misrepresentation at the end of Paragraph 23. Q. 26 you mean? A. Yes, 26. Q. Okay. I just wanted the record to be clear.	2 3 4 5 6	at just a little bit earlier, the kinds of scatter plots that were in Figure 5, one sees a little bit of what's going on; that in the left-hand side of the scatter plot we see we see that some of these old town Florissant places have really high turnout in those elections. Q. You didn't, Dr. Rodden, attempt to calculate
2 3 4 5 6 7	possible that when I was writing, I was imagining I would put the other graph in the paper, so I apologize for that mis that misrepresentation at the end of Paragraph 23. Q. 26 you mean? A. Yes, 26. Q. Okay. I just wanted the record to be clear. A. Yes.	2 3 4 5 6 7	at just a little bit earlier, the kinds of scatter plots that were in Figure 5, one sees a little bit of what's going on; that in the left-hand side of the scatter plot we see we see that some of these old town Florissant places have really high turnout in those elections. Q. You didn't, Dr. Rodden, attempt to calculate turnout rates comparatively in the Ferguson-Florissant
2 3 4 5 6 7 8	possible that when I was writing, I was imagining I would put the other graph in the paper, so I apologize for that mis that misrepresentation at the end of Paragraph 23. Q. 26 you mean? A. Yes, 26. Q. Okay. I just wanted the record to be clear. A. Yes. Q. So in all 12 in the 12 elections that you	2 3 4 5 6 7 8	at just a little bit earlier, the kinds of scatter plots that were in Figure 5, one sees a little bit of what's going on; that in the left-hand side of the scatter plot we see we see that some of these old town Florissant places have really high turnout in those elections. Q. You didn't, Dr. Rodden, attempt to calculate turnout rates comparatively in the Ferguson-Florissant school district in those two elections while subtracting
2 3 4 5 6 7 8	possible that when I was writing, I was imagining I would put the other graph in the paper, so I apologize for that mis that misrepresentation at the end of Paragraph 23. Q. 26 you mean? A. Yes, 26. Q. Okay. I just wanted the record to be clear. A. Yes. Q. So in all 12 in the 12 elections that you looked at over 15 years, the point estimate for	2 3 4 5 6 7 8	at just a little bit earlier, the kinds of scatter plots that were in Figure 5, one sees a little bit of what's going on; that in the left-hand side of the scatter plot we see we see that some of these old town Florissant places have really high turnout in those elections. Q. You didn't, Dr. Rodden, attempt to calculate turnout rates comparatively in the Ferguson-Florissant school district in those two elections while subtracting out Florissant, did you?
2 3 4 5 6 7 8 9	possible that when I was writing, I was imagining I would put the other graph in the paper, so I apologize for that mis that misrepresentation at the end of Paragraph 23. Q. 26 you mean? A. Yes, 26. Q. Okay. I just wanted the record to be clear. A. Yes. Q. So in all 12 in the 12 elections that you looked at over 15 years, the point estimate for African-American turnout was higher than for white turnout	2 3 4 5 6 7 8 9	at just a little bit earlier, the kinds of scatter plots that were in Figure 5, one sees a little bit of what's going on; that in the left-hand side of the scatter plot we see we see that some of these old town Florissant places have really high turnout in those elections. Q. You didn't, Dr. Rodden, attempt to calculate turnout rates comparatively in the Ferguson-Florissant school district in those two elections while subtracting out Florissant, did you? A. Get rid of Florissant and redo the analysis?
2 3 4 5 6 7 8 9 10	possible that when I was writing, I was imagining I would put the other graph in the paper, so I apologize for that mis that misrepresentation at the end of Paragraph 23. Q. 26 you mean? A. Yes, 26. Q. Okay. I just wanted the record to be clear. A. Yes. Q. So in all 12 in the 12 elections that you looked at over 15 years, the point estimate for African-American turnout was higher than for white turnout only one time, correct?	2 3 4 5 6 7 8 9 10	at just a little bit earlier, the kinds of scatter plots that were in Figure 5, one sees a little bit of what's going on; that in the left-hand side of the scatter plot we see we see that some of these old town Florissant places have really high turnout in those elections. Q. You didn't, Dr. Rodden, attempt to calculate turnout rates comparatively in the Ferguson-Florissant school district in those two elections while subtracting out Florissant, did you? A. Get rid of Florissant and redo the analysis? Q. Yeah. You didn't try to do that, did you?
2 3 4 5 6 7 8 9 10 11	possible that when I was writing, I was imagining I would put the other graph in the paper, so I apologize for that mis that misrepresentation at the end of Paragraph 23. Q. 26 you mean? A. Yes, 26. Q. Okay. I just wanted the record to be clear. A. Yes. Q. So in all 12 in the 12 elections that you looked at over 15 years, the point estimate for African-American turnout was higher than for white turnout only one time, correct? A. That is correct.	2 3 4 5 6 7 8 9 10 11 12	at just a little bit earlier, the kinds of scatter plots that were in Figure 5, one sees a little bit of what's going on; that in the left-hand side of the scatter plot we see we see that some of these old town Florissant places have really high turnout in those elections. Q. You didn't, Dr. Rodden, attempt to calculate turnout rates comparatively in the Ferguson-Florissant school district in those two elections while subtracting out Florissant, did you? A. Get rid of Florissant and redo the analysis? Q. Yeah. You didn't try to do that, did you? A. I don't recall.
2 3 4 5 6 7 8 9 10 11 12	possible that when I was writing, I was imagining I would put the other graph in the paper, so I apologize for that mis that misrepresentation at the end of Paragraph 23. Q. 26 you mean? A. Yes, 26. Q. Okay. I just wanted the record to be clear. A. Yes. Q. So in all 12 in the 12 elections that you looked at over 15 years, the point estimate for African-American turnout was higher than for white turnout only one time, correct? A. That is correct. Q. And that one time it was not higher to a	2 3 4 5 6 7 8 9 10 11 12 13	at just a little bit earlier, the kinds of scatter plots that were in Figure 5, one sees a little bit of what's going on; that in the left-hand side of the scatter plot we see we see that some of these old town Florissant places have really high turnout in those elections. Q. You didn't, Dr. Rodden, attempt to calculate turnout rates comparatively in the Ferguson-Florissant school district in those two elections while subtracting out Florissant, did you? A. Get rid of Florissant and redo the analysis? Q. Yeah. You didn't try to do that, did you? A. I don't recall. Q. That would be one way to test the effect of
2 3 4 5 6 7 8 9 10 11 12 13	possible that when I was writing, I was imagining I would put the other graph in the paper, so I apologize for that mis that misrepresentation at the end of Paragraph 23. Q. 26 you mean? A. Yes, 26. Q. Okay. I just wanted the record to be clear. A. Yes. Q. So in all 12 in the 12 elections that you looked at over 15 years, the point estimate for African-American turnout was higher than for white turnout only one time, correct? A. That is correct. Q. And that one time it was not higher to a statistically significant degree, correct?	2 3 4 5 6 7 8 9 10 11 12 13	at just a little bit earlier, the kinds of scatter plots that were in Figure 5, one sees a little bit of what's going on; that in the left-hand side of the scatter plot we see we see that some of these old town Florissant places have really high turnout in those elections. Q. You didn't, Dr. Rodden, attempt to calculate turnout rates comparatively in the Ferguson-Florissant school district in those two elections while subtracting out Florissant, did you? A. Get rid of Florissant and redo the analysis? Q. Yeah. You didn't try to do that, did you? A. I don't recall. Q. That would be one way to test the effect of whether or not the mayoral election in Florissant had an
2 3 4 5 6 7 8 9 10 11 12 13 14 15	possible that when I was writing, I was imagining I would put the other graph in the paper, so I apologize for that mis that misrepresentation at the end of Paragraph 23. Q. 26 you mean? A. Yes, 26. Q. Okay. I just wanted the record to be clear. A. Yes. Q. So in all 12 in the 12 elections that you looked at over 15 years, the point estimate for African-American turnout was higher than for white turnout only one time, correct? A. That is correct. Q. And that one time it was not higher to a statistically significant degree, correct? A. Correct.	2 3 4 5 6 7 8 9 10 11 12 13 14	at just a little bit earlier, the kinds of scatter plots that were in Figure 5, one sees a little bit of what's going on; that in the left-hand side of the scatter plot we see we see that some of these old town Florissant places have really high turnout in those elections. Q. You didn't, Dr. Rodden, attempt to calculate turnout rates comparatively in the Ferguson-Florissant school district in those two elections while subtracting out Florissant, did you? A. Get rid of Florissant and redo the analysis? Q. Yeah. You didn't try to do that, did you? A. I don't recall. Q. That would be one way to test the effect of whether or not the mayoral election in Florissant had an effect on turnout in the Ferguson-Florissant school
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	possible that when I was writing, I was imagining I would put the other graph in the paper, so I apologize for that mis that misrepresentation at the end of Paragraph 23. Q. 26 you mean? A. Yes, 26. Q. Okay. I just wanted the record to be clear. A. Yes. Q. So in all 12 in the 12 elections that you looked at over 15 years, the point estimate for African-American turnout was higher than for white turnout only one time, correct? A. That is correct. Q. And that one time it was not higher to a statistically significant degree, correct? A. Correct. Q. So that one time the turnout rates between	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	at just a little bit earlier, the kinds of scatter plots that were in Figure 5, one sees a little bit of what's going on; that in the left-hand side of the scatter plot we see we see that some of these old town Florissant places have really high turnout in those elections. Q. You didn't, Dr. Rodden, attempt to calculate turnout rates comparatively in the Ferguson-Florissant school district in those two elections while subtracting out Florissant, did you? A. Get rid of Florissant and redo the analysis? Q. Yeah. You didn't try to do that, did you? A. I don't recall. Q. That would be one way to test the effect of whether or not the mayoral election in Florissant had an effect on turnout in the Ferguson-Florissant school district in those elections, right? You could have
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	possible that when I was writing, I was imagining I would put the other graph in the paper, so I apologize for that mis that misrepresentation at the end of Paragraph 23. Q. 26 you mean? A. Yes, 26. Q. Okay. I just wanted the record to be clear. A. Yes. Q. So in all 12 in the 12 elections that you looked at over 15 years, the point estimate for African-American turnout was higher than for white turnout only one time, correct? A. That is correct. Q. And that one time it was not higher to a statistically significant degree, correct? A. Correct. Q. So that one time the turnout rates between black and whites were, in your view, statistically	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	at just a little bit earlier, the kinds of scatter plots that were in Figure 5, one sees a little bit of what's going on; that in the left-hand side of the scatter plot we see we see that some of these old town Florissant places have really high turnout in those elections. Q. You didn't, Dr. Rodden, attempt to calculate turnout rates comparatively in the Ferguson-Florissant school district in those two elections while subtracting out Florissant, did you? A. Get rid of Florissant and redo the analysis? Q. Yeah. You didn't try to do that, did you? A. I don't recall. Q. That would be one way to test the effect of whether or not the mayoral election in Florissant had an effect on turnout in the Ferguson-Florissant school district in those elections, right? You could have subtracted Florissant out and seen if turnout, in fact,
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	possible that when I was writing, I was imagining I would put the other graph in the paper, so I apologize for that mis that misrepresentation at the end of Paragraph 23. Q. 26 you mean? A. Yes, 26. Q. Okay. I just wanted the record to be clear. A. Yes. Q. So in all 12 in the 12 elections that you looked at over 15 years, the point estimate for African-American turnout was higher than for white turnout only one time, correct? A. That is correct. Q. And that one time it was not higher to a statistically significant degree, correct? A. Correct. Q. So that one time the turnout rates between black and whites were, in your view, statistically indistinguishable, correct?	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	at just a little bit earlier, the kinds of scatter plots that were in Figure 5, one sees a little bit of what's going on; that in the left-hand side of the scatter plot we see we see that some of these old town Florissant places have really high turnout in those elections. Q. You didn't, Dr. Rodden, attempt to calculate turnout rates comparatively in the Ferguson-Florissant school district in those two elections while subtracting out Florissant, did you? A. Get rid of Florissant and redo the analysis? Q. Yeah. You didn't try to do that, did you? A. I don't recall. Q. That would be one way to test the effect of whether or not the mayoral election in Florissant had an effect on turnout in the Ferguson-Florissant school district in those elections, right? You could have subtracted Florissant out and seen if turnout, in fact, went up outside of Florissant or was flat outside of
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	possible that when I was writing, I was imagining I would put the other graph in the paper, so I apologize for that mis that misrepresentation at the end of Paragraph 23. Q. 26 you mean? A. Yes, 26. Q. Okay. I just wanted the record to be clear. A. Yes. Q. So in all 12 in the 12 elections that you looked at over 15 years, the point estimate for African-American turnout was higher than for white turnout only one time, correct? A. That is correct. Q. And that one time it was not higher to a statistically significant degree, correct? A. Correct. Q. So that one time the turnout rates between black and whites were, in your view, statistically indistinguishable, correct? A. Yes, but as you mentioned earlier, it is	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	at just a little bit earlier, the kinds of scatter plots that were in Figure 5, one sees a little bit of what's going on; that in the left-hand side of the scatter plot we see we see that some of these old town Florissant places have really high turnout in those elections. Q. You didn't, Dr. Rodden, attempt to calculate turnout rates comparatively in the Ferguson-Florissant school district in those two elections while subtracting out Florissant, did you? A. Get rid of Florissant and redo the analysis? Q. Yeah. You didn't try to do that, did you? A. I don't recall. Q. That would be one way to test the effect of whether or not the mayoral election in Florissant had an effect on turnout in the Ferguson-Florissant school district in those elections, right? You could have subtracted Florissant out and seen if turnout, in fact, went up outside of Florissant or was flat outside of Florissant, right?
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	possible that when I was writing, I was imagining I would put the other graph in the paper, so I apologize for that mis that misrepresentation at the end of Paragraph 23. Q. 26 you mean? A. Yes, 26. Q. Okay. I just wanted the record to be clear. A. Yes. Q. So in all 12 in the 12 elections that you looked at over 15 years, the point estimate for African-American turnout was higher than for white turnout only one time, correct? A. That is correct. Q. And that one time it was not higher to a statistically significant degree, correct? A. Correct. Q. So that one time the turnout rates between black and whites were, in your view, statistically indistinguishable, correct? A. Yes, but as you mentioned earlier, it is important to understand that the voting age population of	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	at just a little bit earlier, the kinds of scatter plots that were in Figure 5, one sees a little bit of what's going on; that in the left-hand side of the scatter plot we see we see that some of these old town Florissant places have really high turnout in those elections. Q. You didn't, Dr. Rodden, attempt to calculate turnout rates comparatively in the Ferguson-Florissant school district in those two elections while subtracting out Florissant, did you? A. Get rid of Florissant and redo the analysis? Q. Yeah. You didn't try to do that, did you? A. I don't recall. Q. That would be one way to test the effect of whether or not the mayoral election in Florissant had an effect on turnout in the Ferguson-Florissant school district in those elections, right? You could have subtracted Florissant out and seen if turnout, in fact, went up outside of Florissant or was flat outside of Florissant, right? A. When you say went up or was flat, you mean
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	possible that when I was writing, I was imagining I would put the other graph in the paper, so I apologize for that mis that misrepresentation at the end of Paragraph 23. Q. 26 you mean? A. Yes, 26. Q. Okay. I just wanted the record to be clear. A. Yes. Q. So in all 12 in the 12 elections that you looked at over 15 years, the point estimate for African-American turnout was higher than for white turnout only one time, correct? A. That is correct. Q. And that one time it was not higher to a statistically significant degree, correct? A. Correct. Q. So that one time the turnout rates between black and whites were, in your view, statistically indistinguishable, correct? A. Yes, but as you mentioned earlier, it is important to understand that the voting age population of African-Americans now exceeds the voting age population of	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	at just a little bit earlier, the kinds of scatter plots that were in Figure 5, one sees a little bit of what's going on; that in the left-hand side of the scatter plot we see we see that some of these old town Florissant places have really high turnout in those elections. Q. You didn't, Dr. Rodden, attempt to calculate turnout rates comparatively in the Ferguson-Florissant school district in those two elections while subtracting out Florissant, did you? A. Get rid of Florissant and redo the analysis? Q. Yeah. You didn't try to do that, did you? A. I don't recall. Q. That would be one way to test the effect of whether or not the mayoral election in Florissant had an effect on turnout in the Ferguson-Florissant school district in those elections, right? You could have subtracted Florissant out and seen if turnout, in fact, went up outside of Florissant or was flat outside of Florissant, right? A. When you say went up or was flat, you mean re-examine the relationship between race and turnout
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	possible that when I was writing, I was imagining I would put the other graph in the paper, so I apologize for that mis that misrepresentation at the end of Paragraph 23. Q. 26 you mean? A. Yes, 26. Q. Okay. I just wanted the record to be clear. A. Yes. Q. So in all 12 in the 12 elections that you looked at over 15 years, the point estimate for African-American turnout was higher than for white turnout only one time, correct? A. That is correct. Q. And that one time it was not higher to a statistically significant degree, correct? A. Correct. Q. So that one time the turnout rates between black and whites were, in your view, statistically indistinguishable, correct? A. Yes, but as you mentioned earlier, it is important to understand that the voting age population of African-Americans now exceeds the voting age population of whites, so if we actually are interested in the electorate	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	at just a little bit earlier, the kinds of scatter plots that were in Figure 5, one sees a little bit of what's going on; that in the left-hand side of the scatter plot we see we see that some of these old town Florissant places have really high turnout in those elections. Q. You didn't, Dr. Rodden, attempt to calculate turnout rates comparatively in the Ferguson-Florissant school district in those two elections while subtracting out Florissant, did you? A. Get rid of Florissant and redo the analysis? Q. Yeah. You didn't try to do that, did you? A. I don't recall. Q. That would be one way to test the effect of whether or not the mayoral election in Florissant had an effect on turnout in the Ferguson-Florissant school district in those elections, right? You could have subtracted Florissant out and seen if turnout, in fact, went up outside of Florissant or was flat outside of Florissant, right? A. When you say went up or was flat, you mean re-examine the relationship between race and turnout without Florissant?
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	possible that when I was writing, I was imagining I would put the other graph in the paper, so I apologize for that mis that misrepresentation at the end of Paragraph 23. Q. 26 you mean? A. Yes, 26. Q. Okay. I just wanted the record to be clear. A. Yes. Q. So in all 12 in the 12 elections that you looked at over 15 years, the point estimate for African-American turnout was higher than for white turnout only one time, correct? A. That is correct. Q. And that one time it was not higher to a statistically significant degree, correct? A. Correct. Q. So that one time the turnout rates between black and whites were, in your view, statistically indistinguishable, correct? A. Yes, but as you mentioned earlier, it is important to understand that the voting age population of African-Americans now exceeds the voting age population of whites, so if we actually are interested in the electorate on election day, we might draw a different conclusion in	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	at just a little bit earlier, the kinds of scatter plots that were in Figure 5, one sees a little bit of what's going on; that in the left-hand side of the scatter plot we see we see that some of these old town Florissant places have really high turnout in those elections. Q. You didn't, Dr. Rodden, attempt to calculate turnout rates comparatively in the Ferguson-Florissant school district in those two elections while subtracting out Florissant, did you? A. Get rid of Florissant and redo the analysis? Q. Yeah. You didn't try to do that, did you? A. I don't recall. Q. That would be one way to test the effect of whether or not the mayoral election in Florissant had an effect on turnout in the Ferguson-Florissant school district in those elections, right? You could have subtracted Florissant out and seen if turnout, in fact, went up outside of Florissant or was flat outside of Florissant, right? A. When you say went up or was flat, you mean re-examine the relationship between race and turnout without Florissant? Q. Yes.

1	Page 89		Page 91
	quantitatively assess whether or not the Florissant	1	insufficient.
2	mayoral election had an effect on white turnout in the	2	Q. Okay. Can we look back at your report, Page
3	Ferguson-Florissant school district in those two years,	3	16, Paragraph 28. You write, "As discussed below, the
4	correct?	4	2011 election attracted unusually high turnout due to
5	A. Yes.	5	widespread anger over the revelation that a retiring
6	Q. And you could have done that, right?	6	superintendent had been offered an exceptionally expensive
7	A. I'm not I will not go on record as saying I	7	package of lifetime benefits. This led to a tax revolt of
8	didn't do it. I don't remember. It does seem like a	8	sorts in which all of the sitting incumbents were removed
9	sufficiently reasonable thing to do, but I may have	9	from office."
10	done it. I don't remember.	10	Did I read that correctly?
11	Q. Okay. And we established earlier, didn't we,	11	A. Yes.
12	Dr. Rodden, that to get through peer review, one should	12	Q. Okay. Would you describe black turnout in
13	quantitatively test hypotheses, not rely simply on sort of	13	this election as unusually high in 2011? And you can look
14	qualitative judgments about whether or not something was	14	at the spreadsheet if that helps.
15	the cause of something else, right?	15	A. Sure. I was just looking at the graph. No.
16	A. Yes.	16	Q. No. And in fact, black turnout is lower in
17	Q. So would the assertion here that the	17	2011 as compared to the most recent election before that,
18	Florissant mayoral campaign caused white turnout to spike	18	2009, correct?
19	in the Ferguson-Florissant school district during these	19	A. Yes, that's correct.
20	two years, that hypothesis or assertion would not survive	20	Q. So only white turnout increased in 2011 as
21	peer review according to the standards that we discussed	21	compared to the previous election, correct?
22	earlier today, correct?	22	A. That's correct.
23	A. If that was the purpose of the article was to	23	Q. So then would it be fair to say that white
24	convince the reader that I have a finding about mayoral	24	voters participated in the tax revolt that you're
25	elections and the impact of mayoral elections on turnout,	25	referring to here?
	Page 90		Page 92
1	this would not this is not the type of analysis one	1	A. If that was a factor. Again, I have to
2	would do. The analysis here is an effort to understand a	2	describe the spirit in which this analysis was done. When
3	pattern of African-American and white turnout, and what		
		3	I see two big outliers like that, I want to explain them
4	happens in that analysis is that they look very similar in	3 4	•
4 5	happens in that analysis is that they look very similar in quite a good number of years, and then there are these two		I see two big outliers like that, I want to explain them
	, , , ,	4 5 6	I see two big outliers like that, I want to explain them to the reader and provide some context, and indeed it
5 6 7	quite a good number of years, and then there are these two	4 5 6 7	I see two big outliers like that, I want to explain them to the reader and provide some context, and indeed it seems to have been the case that among that these
5 6 7 8	quite a good number of years, and then there are these two big spikes that really strike the reader to then, in that kind of analysis, tell the reader what they think might be going on to cause those outliers. Yes, that type of a	4 5 6 7 8	I see two big outliers like that, I want to explain them to the reader and provide some context, and indeed it seems to have been the case that among that these things kind of these kinds of issues seem to spread through social networks in a way. It seemed to be the case that people in
5 6 7 8 9	quite a good number of years, and then there are these two big spikes that really strike the reader to then, in that kind of analysis, tell the reader what they think might be going on to cause those outliers. Yes, that type of a post-analysis kind of discussion of outliers is absolutely	4 5 6 7 8 9	I see two big outliers like that, I want to explain them to the reader and provide some context, and indeed it seems to have been the case that among that these things kind of these kinds of issues seem to spread through social networks in a way. It seemed to be the case that people in that people in Florissant were really there was a lot
5 6 7 8 9 10	quite a good number of years, and then there are these two big spikes that really strike the reader to then, in that kind of analysis, tell the reader what they think might be going on to cause those outliers. Yes, that type of a post-analysis kind of discussion of outliers is absolutely something one would do in a peer-reviewed article.	4 5 6 7 8 9	I see two big outliers like that, I want to explain them to the reader and provide some context, and indeed it seems to have been the case that among that these things kind of these kinds of issues seem to spread through social networks in a way. It seemed to be the case that people in that people in Florissant were really there was a lot of discussion about this. So in the news media reporting
5 6 7 8 9 10 11	quite a good number of years, and then there are these two big spikes that really strike the reader to then, in that kind of analysis, tell the reader what they think might be going on to cause those outliers. Yes, that type of a post-analysis kind of discussion of outliers is absolutely something one would do in a peer-reviewed article. Q. But the attribution of a causal relationship	4 5 6 7 8 9 10	I see two big outliers like that, I want to explain them to the reader and provide some context, and indeed it seems to have been the case that among that these things kind of these kinds of issues seem to spread through social networks in a way. It seemed to be the case that people in that people in Florissant were really there was a lot of discussion about this. So in the news media reporting there was a lot of anger among Florissant residents. And
5 6 7 8 9 10 11 12	quite a good number of years, and then there are these two big spikes that really strike the reader to then, in that kind of analysis, tell the reader what they think might be going on to cause those outliers. Yes, that type of a post-analysis kind of discussion of outliers is absolutely something one would do in a peer-reviewed article. Q. But the attribution of a causal relationship between the Florissant mayoral election and turnout	4 5 6 7 8 9 10 11 12	I see two big outliers like that, I want to explain them to the reader and provide some context, and indeed it seems to have been the case that among that these things kind of these kinds of issues seem to spread through social networks in a way. It seemed to be the case that people in that people in Florissant were really there was a lot of discussion about this. So in the news media reporting there was a lot of anger among Florissant residents. And again, I'm from Florissant, and my social network is based
5 6 7 8 9 10 11 12	quite a good number of years, and then there are these two big spikes that really strike the reader to then, in that kind of analysis, tell the reader what they think might be going on to cause those outliers. Yes, that type of a post-analysis kind of discussion of outliers is absolutely something one would do in a peer-reviewed article. Q. But the attribution of a causal relationship between the Florissant mayoral election and turnout patterns in 2011 and 2015, that's not something that you	4 5 6 7 8 9 10 11 12 13	I see two big outliers like that, I want to explain them to the reader and provide some context, and indeed it seems to have been the case that among that these things kind of these kinds of issues seem to spread through social networks in a way. It seemed to be the case that people in that people in Florissant were really there was a lot of discussion about this. So in the news media reporting there was a lot of anger among Florissant residents. And again, I'm from Florissant, and my social network is based on Florissant and I heard those people really talking
5 6 7 8 9 10 11 12 13	quite a good number of years, and then there are these two big spikes that really strike the reader to then, in that kind of analysis, tell the reader what they think might be going on to cause those outliers. Yes, that type of a post-analysis kind of discussion of outliers is absolutely something one would do in a peer-reviewed article. Q. But the attribution of a causal relationship between the Florissant mayoral election and turnout patterns in 2011 and 2015, that's not something that you assessed quantitatively in this report, correct?	4 5 6 7 8 9 10 11 12 13 14	I see two big outliers like that, I want to explain them to the reader and provide some context, and indeed it seems to have been the case that among that these things kind of these kinds of issues seem to spread through social networks in a way. It seemed to be the case that people in that people in Florissant were really there was a lot of discussion about this. So in the news media reporting there was a lot of anger among Florissant residents. And again, I'm from Florissant, and my social network is based on Florissant and I heard those people really talking about this thing.
5 6 7 8 9 10 11 12 13 14	quite a good number of years, and then there are these two big spikes that really strike the reader to then, in that kind of analysis, tell the reader what they think might be going on to cause those outliers. Yes, that type of a post-analysis kind of discussion of outliers is absolutely something one would do in a peer-reviewed article. Q. But the attribution of a causal relationship between the Florissant mayoral election and turnout patterns in 2011 and 2015, that's not something that you assessed quantitatively in this report, correct? A. Not in the version of the report that is	4 5 6 7 8 9 10 11 12 13 14 15	I see two big outliers like that, I want to explain them to the reader and provide some context, and indeed it seems to have been the case that among that these things kind of these kinds of issues seem to spread through social networks in a way. It seemed to be the case that people in that people in Florissant were really there was a lot of discussion about this. So in the news media reporting there was a lot of anger among Florissant residents. And again, I'm from Florissant, and my social network is based on Florissant and I heard those people really talking about this thing. Q. Uh-huh.
5 6 7 8 9 10 11 12 13 14 15	quite a good number of years, and then there are these two big spikes that really strike the reader to then, in that kind of analysis, tell the reader what they think might be going on to cause those outliers. Yes, that type of a post-analysis kind of discussion of outliers is absolutely something one would do in a peer-reviewed article. Q. But the attribution of a causal relationship between the Florissant mayoral election and turnout patterns in 2011 and 2015, that's not something that you assessed quantitatively in this report, correct? A. Not in the version of the report that is not in the final report. I did satisfy myself with some	4 5 6 7 8 9 10 11 12 13 14 15	I see two big outliers like that, I want to explain them to the reader and provide some context, and indeed it seems to have been the case that among that these things kind of these kinds of issues seem to spread through social networks in a way. It seemed to be the case that people in that people in Florissant were really there was a lot of discussion about this. So in the news media reporting there was a lot of anger among Florissant residents. And again, I'm from Florissant, and my social network is based on Florissant and I heard those people really talking about this thing. Q. Uh-huh. A. I don't know much about about, you know, I
5 6 7 8 9 10 11 12 13 14 15 16	quite a good number of years, and then there are these two big spikes that really strike the reader to then, in that kind of analysis, tell the reader what they think might be going on to cause those outliers. Yes, that type of a post-analysis kind of discussion of outliers is absolutely something one would do in a peer-reviewed article. Q. But the attribution of a causal relationship between the Florissant mayoral election and turnout patterns in 2011 and 2015, that's not something that you assessed quantitatively in this report, correct? A. Not in the version of the report that is not in the final report. I did satisfy myself with some calculations that that was going on, but I realize that I	4 5 6 7 8 9 10 11 12 13 14 15 16	I see two big outliers like that, I want to explain them to the reader and provide some context, and indeed it seems to have been the case that among that these things kind of these kinds of issues seem to spread through social networks in a way. It seemed to be the case that people in that people in Florissant were really there was a lot of discussion about this. So in the news media reporting there was a lot of anger among Florissant residents. And again, I'm from Florissant, and my social network is based on Florissant and I heard those people really talking about this thing. Q. Uh-huh. A. I don't know much about about, you know, I don't have a theory as to why this particular event would
5 6 7 8 9 10 11 12 13 14 15 16 17 18	quite a good number of years, and then there are these two big spikes that really strike the reader to then, in that kind of analysis, tell the reader what they think might be going on to cause those outliers. Yes, that type of a post-analysis kind of discussion of outliers is absolutely something one would do in a peer-reviewed article. Q. But the attribution of a causal relationship between the Florissant mayoral election and turnout patterns in 2011 and 2015, that's not something that you assessed quantitatively in this report, correct? A. Not in the version of the report that is not in the final report. I did satisfy myself with some calculations that that was going on, but I realize that I did not include any information like that in the report.	4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	I see two big outliers like that, I want to explain them to the reader and provide some context, and indeed it seems to have been the case that among that these things kind of these kinds of issues seem to spread through social networks in a way. It seemed to be the case that people in that people in Florissant were really there was a lot of discussion about this. So in the news media reporting there was a lot of anger among Florissant residents. And again, I'm from Florissant, and my social network is based on Florissant and I heard those people really talking about this thing. Q. Uh-huh. A. I don't know much about about, you know, I don't have a theory as to why this particular event would have been more interesting to whites than
5 6 7 8 9 10 11 12 13 14 15 16 17 18	quite a good number of years, and then there are these two big spikes that really strike the reader to then, in that kind of analysis, tell the reader what they think might be going on to cause those outliers. Yes, that type of a post-analysis kind of discussion of outliers is absolutely something one would do in a peer-reviewed article. Q. But the attribution of a causal relationship between the Florissant mayoral election and turnout patterns in 2011 and 2015, that's not something that you assessed quantitatively in this report, correct? A. Not in the version of the report that is not in the final report. I did satisfy myself with some calculations that that was going on, but I realize that I did not include any information like that in the report. Q. But so that causal proposition that the	4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	I see two big outliers like that, I want to explain them to the reader and provide some context, and indeed it seems to have been the case that among that these things kind of these kinds of issues seem to spread through social networks in a way. It seemed to be the case that people in that people in Florissant were really there was a lot of discussion about this. So in the news media reporting there was a lot of anger among Florissant residents. And again, I'm from Florissant, and my social network is based on Florissant and I heard those people really talking about this thing. Q. Uh-huh. A. I don't know much about about, you know, I don't have a theory as to why this particular event would have been more interesting to whites than African-Americans. I don't have that.
5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	quite a good number of years, and then there are these two big spikes that really strike the reader to then, in that kind of analysis, tell the reader what they think might be going on to cause those outliers. Yes, that type of a post-analysis kind of discussion of outliers is absolutely something one would do in a peer-reviewed article. Q. But the attribution of a causal relationship between the Florissant mayoral election and turnout patterns in 2011 and 2015, that's not something that you assessed quantitatively in this report, correct? A. Not in the version of the report that is not in the final report. I did satisfy myself with some calculations that that was going on, but I realize that I did not include any information like that in the report. Q. But so that causal proposition that the Florissant mayoral elections in 2011 and 2015 caused white	4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	I see two big outliers like that, I want to explain them to the reader and provide some context, and indeed it seems to have been the case that among that these things kind of these kinds of issues seem to spread through social networks in a way. It seemed to be the case that people in that people in Florissant were really there was a lot of discussion about this. So in the news media reporting there was a lot of anger among Florissant residents. And again, I'm from Florissant, and my social network is based on Florissant and I heard those people really talking about this thing. Q. Uh-huh. A. I don't know much about about, you know, I don't have a theory as to why this particular event would have been more interesting to whites than African-Americans. I don't have that. Q. But you do say there was a tax revolt in the
5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	quite a good number of years, and then there are these two big spikes that really strike the reader to then, in that kind of analysis, tell the reader what they think might be going on to cause those outliers. Yes, that type of a post-analysis kind of discussion of outliers is absolutely something one would do in a peer-reviewed article. Q. But the attribution of a causal relationship between the Florissant mayoral election and turnout patterns in 2011 and 2015, that's not something that you assessed quantitatively in this report, correct? A. Not in the version of the report that is not in the final report. I did satisfy myself with some calculations that that was going on, but I realize that I did not include any information like that in the report. Q. But so that causal proposition that the Florissant mayoral elections in 2011 and 2015 caused white turnout to spike in those two years, that is not the kind	4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	I see two big outliers like that, I want to explain them to the reader and provide some context, and indeed it seems to have been the case that among that these things kind of these kinds of issues seem to spread through social networks in a way. It seemed to be the case that people in that people in Florissant were really there was a lot of discussion about this. So in the news media reporting there was a lot of anger among Florissant residents. And again, I'm from Florissant, and my social network is based on Florissant and I heard those people really talking about this thing. Q. Uh-huh. A. I don't know much about about, you know, I don't have a theory as to why this particular event would have been more interesting to whites than African-Americans. I don't have that. Q. But you do say there was a tax revolt in the 2011 election?
5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	quite a good number of years, and then there are these two big spikes that really strike the reader to then, in that kind of analysis, tell the reader what they think might be going on to cause those outliers. Yes, that type of a post-analysis kind of discussion of outliers is absolutely something one would do in a peer-reviewed article. Q. But the attribution of a causal relationship between the Florissant mayoral election and turnout patterns in 2011 and 2015, that's not something that you assessed quantitatively in this report, correct? A. Not in the version of the report that is not in the final report. I did satisfy myself with some calculations that that was going on, but I realize that I did not include any information like that in the report. Q. But so that causal proposition that the Florissant mayoral elections in 2011 and 2015 caused white turnout to spike in those two years, that is not the kind of causal assertion, the way that you've supported it here	4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	I see two big outliers like that, I want to explain them to the reader and provide some context, and indeed it seems to have been the case that among that these things kind of these kinds of issues seem to spread through social networks in a way. It seemed to be the case that people in that people in Florissant were really there was a lot of discussion about this. So in the news media reporting there was a lot of anger among Florissant residents. And again, I'm from Florissant, and my social network is based on Florissant and I heard those people really talking about this thing. Q. Uh-huh. A. I don't know much about about, you know, I don't have a theory as to why this particular event would have been more interesting to whites than African-Americans. I don't have that. Q. But you do say there was a tax revolt in the 2011 election? A. That's my understanding mainly from media
5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	quite a good number of years, and then there are these two big spikes that really strike the reader to then, in that kind of analysis, tell the reader what they think might be going on to cause those outliers. Yes, that type of a post-analysis kind of discussion of outliers is absolutely something one would do in a peer-reviewed article. Q. But the attribution of a causal relationship between the Florissant mayoral election and turnout patterns in 2011 and 2015, that's not something that you assessed quantitatively in this report, correct? A. Not in the version of the report that is not in the final report. I did satisfy myself with some calculations that that was going on, but I realize that I did not include any information like that in the report. Q. But so that causal proposition that the Florissant mayoral elections in 2011 and 2015 caused white turnout to spike in those two years, that is not the kind of causal assertion, the way that you've supported it here in this report, that would survive peer review, correct?	4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	I see two big outliers like that, I want to explain them to the reader and provide some context, and indeed it seems to have been the case that among that these things kind of these kinds of issues seem to spread through social networks in a way. It seemed to be the case that people in that people in Florissant were really there was a lot of discussion about this. So in the news media reporting there was a lot of anger among Florissant residents. And again, I'm from Florissant, and my social network is based on Florissant and I heard those people really talking about this thing. Q. Uh-huh. A. I don't know much about about, you know, I don't have a theory as to why this particular event would have been more interesting to whites than African-Americans. I don't have that. Q. But you do say there was a tax revolt in the 2011 election? A. That's my understanding mainly from media reporting.
5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	quite a good number of years, and then there are these two big spikes that really strike the reader to then, in that kind of analysis, tell the reader what they think might be going on to cause those outliers. Yes, that type of a post-analysis kind of discussion of outliers is absolutely something one would do in a peer-reviewed article. Q. But the attribution of a causal relationship between the Florissant mayoral election and turnout patterns in 2011 and 2015, that's not something that you assessed quantitatively in this report, correct? A. Not in the version of the report that is not in the final report. I did satisfy myself with some calculations that that was going on, but I realize that I did not include any information like that in the report. Q. But so that causal proposition that the Florissant mayoral elections in 2011 and 2015 caused white turnout to spike in those two years, that is not the kind of causal assertion, the way that you've supported it here	4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	I see two big outliers like that, I want to explain them to the reader and provide some context, and indeed it seems to have been the case that among that these things kind of these kinds of issues seem to spread through social networks in a way. It seemed to be the case that people in that people in Florissant were really there was a lot of discussion about this. So in the news media reporting there was a lot of anger among Florissant residents. And again, I'm from Florissant, and my social network is based on Florissant and I heard those people really talking about this thing. Q. Uh-huh. A. I don't know much about about, you know, I don't have a theory as to why this particular event would have been more interesting to whites than African-Americans. I don't have that. Q. But you do say there was a tax revolt in the 2011 election? A. That's my understanding mainly from media

	Page 93		Page 95
1	correct?	1	would find unusual. I think it's very frequently the case
2	A. Well, there was also a Florissant mayoral	2	that when someone does some analysis and finds some
3	election which I've described as, I think, a more	3	relationship and there are a couple of outliers, there is
4	important factor. That was a very nasty and contested	4	some puzzling about what might cause those outliers, and
5	election.	5	it was in that spirit that I drew upon conversations with
6	Q. In the 2011 election when the tax revolt	6	friends and family and included that in my report.
7	occurred, black turnout did not spike; it, in fact,	7	Q. Can you name the friends and family that you
8	declined relative to the previous election, correct?	8	discussed these issues with and upon which you based your
9	A. Yes.	9	opinion in this report?
10	Q. Would it be then fair to infer that black and	10	A. The reporting about the existence of this
11	white voters responded to these events that you're	11	issue came from a number of media sources that I believe I
12	describing in 2011 differently?	12	provided, but then I also just had conversations with my
13	A. I don't know. If the if the tax if this	13	immediate family and with a couple of other friends who
14	thing really was a factor, it appears to have been a	14	live in the district.
15	factor in an asymmetric way, but I have no good story as	15	Q. Right. And that informed some of what you're
16	to why that would be.	16	stating here?
17	Q. Can you think of any reasons why black and	17	A. It reinforced what I read in the media
18	white voters may have responded to this incident with the	18	reports.
19	superintendent in different ways? Could it stem from	19	Q. Okay. And who were those people?
20	different views on taxes since this is a tax revolt?	20	A. You would like the name of my mother and
21	A. This was this is someone who was an	21	father and my sister?
22	outgoing white superintendent who had been given a very	22	Q. Sure.
23	nice pension package, and people you know, working	23	A. Okay. John, Judy and Janelle Rodden are my
24	people, who themselves did not have such pension packages,	24	immediate family.
25	found that to be obscene and they were angry with the	25	Q. And you talked about this issue with them?
	Page 94		Page 96
1	school board for signing off on it. I don't know why I	1	A. Sure.
2	don't have a theory as to why anger over a compensation	2	Q. And you mentioned some friends, too. Who did
3	package for a superintendent would be greater among one	3	you mention this?
4	racial group than the other. The outgoing superintendent	4	A. I have a friend that lives in Florissant by
5	was white. I don't know if that matters. He people	5	the name of Matt Koch, another friend by the name of Jerry
6	you know, there's a lot of people are a lot of	6	Laws, another friend by the name of Mike Rose. These are
7	people in Florissant are working people who probably don't	7	all people who know the district well and recall the
8	have much in the way of a pension, so I think that really	8	politics of different past years in the district.
9	that really was something that angered them.	9	Q. And I believe your counsel represented to us
10	Q. Fair to say that white voters participated in	10	that you don't have any notes from any of these
11	this tax revolt disproportionately as compared to black	11	conversations?
12	voters?	12	A. No, absolutely not.
13	A. I don't know.	13	Q. Okay. Can you turn to Page 17. Looking at
14	Q. You say that your information about this tax	14	the top paragraph that is continuing from the previous
15	revolt came from your social network; is that right?	15	page, and you have a sentence, the last sentence here that
16	A. Yes.	16	states, "Increased turnout among both racial groups in
17	Q. Is it common for political scientists to rely	17	2014 was likely a function of another controversy
18	on her or his social network in peer-reviewed work?	18	involving an outgoing superintendent discussed further
19	A. When one is facing a statistical outlier and	19	below. And of course the 2015 election took place amid
20	one is trying to understand it, there is a kind of it	20	national attention and serious get-out-the-vote efforts
21	is acceptable to, at the end of the analysis, to kind of	21	following the Michael Brown shooting and associated
22	hypothesize about what some other what some other	22	protests."
23	possibilities might be without testing them, and in	23	Did I read that right?
		24	A. Yes.
24 25	drawing upon what you know about the world, to present readers with a possible hypothesis is not something that I	25	Q. Okay. The controversy in 2014 that you're

_	Page 97		Page 99
1	referring to, I believe, is that the separation of the	1	high turnout.
2	former superintendent, Art McCoy, from the school	2	Q. And that's what I guess I was asking about.
3	district?	3	A. Yeah.
4	A. Yes.	4	Q. You think that the events of 2015 I'm sorry
5	Q. And the controversy around that, you're	5	the events prior to the 2015 election, the national
6	positing here, may have caused turnout to increase in	6	attention after the Michael Brown shooting, the
7	2014?	7	get-out-the-vote efforts, these are special circumstances
8	A. Over the previous couple of years, yes.	8	that may have affected turnout in 2015?
9	Q. And that makes the 2014 election, in your	9	A. I believe they may have increased turnout.
10	mind, different from some of the previous elections of the	10	That's one thing that might be special, but if we are
11	Ferguson-Florissant school district?	11	interested in racial polarization, we see that in Figure 5
12	A. Not the turnout level. You can see here the	12	racial polarization was I'm sorry, Figure 5 is not the
13	turnout level is not anything special. What is special	13	one I meant to refer to. In terms of in terms of
14	about this election is that the correlation between the	14	racial polarization of voting behavior, it was as captured
15	race of the population in the precinct and the race of the	15	by Figure 7. It does not appear in Figure 7 it appears
16	candidates voted for increased dramatically.	16	that 2014 was the outlier, not 2015.
17	Q. So the controversy you would describe as	17	So if I'm going to say that something is
18	something special causing something special to happen	18	that an election is special, I need to know on what
19	in the 2014 election?	19	dimension, and if it's just turnout, I will say yes, it
20	A. Yes.	20	was there was a high turnout in that election.
21	Q. The 2015 election you're referring to in this	21	Q. Okay. I would like to show you something
22	paragraph, you say had national attention around it?	22	we're going to mark as shift topics and show you
23	A. Yes.	23	something we're going to mark as Rodden Exhibit 8.
24	Q. Because of the Michael Brown shooting?	24	(Whereupon, Rodden Deposition Exhibit No. 8
25	A. Yes.	25	was marked for identification.)
	D 09		D 100
	Page 98		Page 100
1	Q. And you think that may have caused turnout to	1	Q. I'll represent to you that these are Pages 9
2	increase in 2015?	2	and 10 of the expert report of William Cooper
3	A. It's possible, yes.		and 10 of the expert report of William Cooper.
	· · · · · ·	3	A. Okay.
4	Q. And you also mentioned get-out-the-vote	4	A. Okay.Q. On behalf of the plaintiffs. And you
5	Q. And you also mentioned get-out-the-vote efforts in 2015?	4 5	A. Okay. Q. On behalf of the plaintiffs. And you testified earlier that you've reviewed actually I don't
5 6	Q. And you also mentioned get-out-the-vote efforts in 2015?A. Yes. Based on media reports, I had the	4 5 6	A. Okay. Q. On behalf of the plaintiffs. And you testified earlier that you've reviewed actually I don't know if I asked you this. You've reviewed Mr. Cooper's
5 6 7	Q. And you also mentioned get-out-the-vote efforts in 2015? A. Yes. Based on media reports, I had the impression that people were putting more effort into this	4 5 6 7	A. Okay. Q. On behalf of the plaintiffs. And you testified earlier that you've reviewed actually I don't know if I asked you this. You've reviewed Mr. Cooper's report in this case, correct?
5 6 7 8	Q. And you also mentioned get-out-the-vote efforts in 2015? A. Yes. Based on media reports, I had the impression that people were putting more effort into this municipal election than would typically be the case.	4 5 6 7 8	A. Okay. Q. On behalf of the plaintiffs. And you testified earlier that you've reviewed actually I don't know if I asked you this. You've reviewed Mr. Cooper's report in this case, correct? A. Yes.
5 6 7 8 9	Q. And you also mentioned get-out-the-vote efforts in 2015? A. Yes. Based on media reports, I had the impression that people were putting more effort into this municipal election than would typically be the case. Q. And that national attention and those	4 5 6 7 8	A. Okay. Q. On behalf of the plaintiffs. And you testified earlier that you've reviewed actually I don't know if I asked you this. You've reviewed Mr. Cooper's report in this case, correct? A. Yes. Q. Could you look at Page 10 of Mr. Cooper's
5 6 7 8 9	Q. And you also mentioned get-out-the-vote efforts in 2015? A. Yes. Based on media reports, I had the impression that people were putting more effort into this municipal election than would typically be the case. Q. And that national attention and those get-out-the-vote efforts, in your mind, that makes that	4 5 6 7 8 9	A. Okay. Q. On behalf of the plaintiffs. And you testified earlier that you've reviewed actually I don't know if I asked you this. You've reviewed Mr. Cooper's report in this case, correct? A. Yes. Q. Could you look at Page 10 of Mr. Cooper's report. In Figure 4 Mr. Cooper presents
5 6 7 8 9 10 11	Q. And you also mentioned get-out-the-vote efforts in 2015? A. Yes. Based on media reports, I had the impression that people were putting more effort into this municipal election than would typically be the case. Q. And that national attention and those get-out-the-vote efforts, in your mind, that makes that marks something different about the 2015 election as	4 5 6 7 8 9 10	A. Okay. Q. On behalf of the plaintiffs. And you testified earlier that you've reviewed actually I don't know if I asked you this. You've reviewed Mr. Cooper's report in this case, correct? A. Yes. Q. Could you look at Page 10 of Mr. Cooper's report. In Figure 4 Mr. Cooper presents MS. ORMSBY: Dale, can I just is this from
5 6 7 8 9 10 11	Q. And you also mentioned get-out-the-vote efforts in 2015? A. Yes. Based on media reports, I had the impression that people were putting more effort into this municipal election than would typically be the case. Q. And that national attention and those get-out-the-vote efforts, in your mind, that makes that marks something different about the 2015 election as compared to some previous ones?	4 5 6 7 8 9 10 11 12	A. Okay. Q. On behalf of the plaintiffs. And you testified earlier that you've reviewed actually I don't know if I asked you this. You've reviewed Mr. Cooper's report in this case, correct? A. Yes. Q. Could you look at Page 10 of Mr. Cooper's report. In Figure 4 Mr. Cooper presents MS. ORMSBY: Dale, can I just is this from his initial report or
5 6 7 8 9 10 11 12 13	Q. And you also mentioned get-out-the-vote efforts in 2015? A. Yes. Based on media reports, I had the impression that people were putting more effort into this municipal election than would typically be the case. Q. And that national attention and those get-out-the-vote efforts, in your mind, that makes that marks something different about the 2015 election as compared to some previous ones? A. I think 2014, you know, it depends on I	4 5 6 7 8 9 10 11 12 13	A. Okay. Q. On behalf of the plaintiffs. And you testified earlier that you've reviewed actually I don't know if I asked you this. You've reviewed Mr. Cooper's report in this case, correct? A. Yes. Q. Could you look at Page 10 of Mr. Cooper's report. In Figure 4 Mr. Cooper presents MS. ORMSBY: Dale, can I just is this from his initial report or MR. HO: Yes. I apologize.
5 6 7 8 9 10 11 12 13	Q. And you also mentioned get-out-the-vote efforts in 2015? A. Yes. Based on media reports, I had the impression that people were putting more effort into this municipal election than would typically be the case. Q. And that national attention and those get-out-the-vote efforts, in your mind, that makes that marks something different about the 2015 election as compared to some previous ones? A. I think 2014, you know, it depends on I would say that we need to know what we're talking about,	4 5 6 7 8 9 10 11 12 13	A. Okay. Q. On behalf of the plaintiffs. And you testified earlier that you've reviewed actually I don't know if I asked you this. You've reviewed Mr. Cooper's report in this case, correct? A. Yes. Q. Could you look at Page 10 of Mr. Cooper's report. In Figure 4 Mr. Cooper presents MS. ORMSBY: Dale, can I just is this from his initial report or MR. HO: Yes. I apologize. MS. ORMSBY: I'm sorry to interrupt.
5 6 7 8 9 10 11 12 13 14 15	Q. And you also mentioned get-out-the-vote efforts in 2015? A. Yes. Based on media reports, I had the impression that people were putting more effort into this municipal election than would typically be the case. Q. And that national attention and those get-out-the-vote efforts, in your mind, that makes that marks something different about the 2015 election as compared to some previous ones? A. I think 2014, you know, it depends on I would say that we need to know what we're talking about, what different in what respect.	4 5 6 7 8 9 10 11 12 13 14	A. Okay. Q. On behalf of the plaintiffs. And you testified earlier that you've reviewed actually I don't know if I asked you this. You've reviewed Mr. Cooper's report in this case, correct? A. Yes. Q. Could you look at Page 10 of Mr. Cooper's report. In Figure 4 Mr. Cooper presents MS. ORMSBY: Dale, can I just is this from his initial report or MR. HO: Yes. I apologize. MS. ORMSBY: I'm sorry to interrupt. Q. (By Mr. Ho) No, no, no. It's fine. This is
5 6 7 8 9 10 11 12 13 14 15	Q. And you also mentioned get-out-the-vote efforts in 2015? A. Yes. Based on media reports, I had the impression that people were putting more effort into this municipal election than would typically be the case. Q. And that national attention and those get-out-the-vote efforts, in your mind, that makes that marks something different about the 2015 election as compared to some previous ones? A. I think 2014, you know, it depends on I would say that we need to know what we're talking about, what different in what respect. Q. Uh-huh.	4 5 6 7 8 9 10 11 12 13 14 15	A. Okay. Q. On behalf of the plaintiffs. And you testified earlier that you've reviewed actually I don't know if I asked you this. You've reviewed Mr. Cooper's report in this case, correct? A. Yes. Q. Could you look at Page 10 of Mr. Cooper's report. In Figure 4 Mr. Cooper presents MS. ORMSBY: Dale, can I just is this from his initial report or MR. HO: Yes. I apologize. MS. ORMSBY: I'm sorry to interrupt. Q. (By Mr. Ho) No, no, no. It's fine. This is his initial report in this case, not his rebuttal report.
5 6 7 8 9 10 11 12 13 14 15 16	Q. And you also mentioned get-out-the-vote efforts in 2015? A. Yes. Based on media reports, I had the impression that people were putting more effort into this municipal election than would typically be the case. Q. And that national attention and those get-out-the-vote efforts, in your mind, that makes that marks something different about the 2015 election as compared to some previous ones? A. I think 2014, you know, it depends on I would say that we need to know what we're talking about, what different in what respect. Q. Uh-huh. A. Different in terms of voting outcomes,	4 5 6 7 8 9 10 11 12 13 14 15 16 17	A. Okay. Q. On behalf of the plaintiffs. And you testified earlier that you've reviewed actually I don't know if I asked you this. You've reviewed Mr. Cooper's report in this case, correct? A. Yes. Q. Could you look at Page 10 of Mr. Cooper's report. In Figure 4 Mr. Cooper presents MS. ORMSBY: Dale, can I just is this from his initial report or MR. HO: Yes. I apologize. MS. ORMSBY: I'm sorry to interrupt. Q. (By Mr. Ho) No, no, no. It's fine. This is his initial report in this case, not his rebuttal report. Page 10, Figure 4 has decennial census data concerning the
5 6 7 8 9 10 11 12 13 14 15 16 17	Q. And you also mentioned get-out-the-vote efforts in 2015? A. Yes. Based on media reports, I had the impression that people were putting more effort into this municipal election than would typically be the case. Q. And that national attention and those get-out-the-vote efforts, in your mind, that makes that marks something different about the 2015 election as compared to some previous ones? A. I think 2014, you know, it depends on I would say that we need to know what we're talking about, what different in what respect. Q. Uh-huh. A. Different in terms of voting outcomes, different in terms of turnout, I would say that with	4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	A. Okay. Q. On behalf of the plaintiffs. And you testified earlier that you've reviewed actually I don't know if I asked you this. You've reviewed Mr. Cooper's report in this case, correct? A. Yes. Q. Could you look at Page 10 of Mr. Cooper's report. In Figure 4 Mr. Cooper presents MS. ORMSBY: Dale, can I just is this from his initial report or MR. HO: Yes. I apologize. MS. ORMSBY: I'm sorry to interrupt. Q. (By Mr. Ho) No, no, no. It's fine. This is his initial report in this case, not his rebuttal report. Page 10, Figure 4 has decennial census data concerning the voting age population in the Ferguson-Florissant school
5 6 7 8 9 10 11 12 13 14 15 16 17 18	Q. And you also mentioned get-out-the-vote efforts in 2015? A. Yes. Based on media reports, I had the impression that people were putting more effort into this municipal election than would typically be the case. Q. And that national attention and those get-out-the-vote efforts, in your mind, that makes that marks something different about the 2015 election as compared to some previous ones? A. I think 2014, you know, it depends on I would say that we need to know what we're talking about, what different in what respect. Q. Uh-huh. A. Different in terms of voting outcomes, different in terms of turnout, I would say that with respect to turnout, it was the it was not the highest	4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	A. Okay. Q. On behalf of the plaintiffs. And you testified earlier that you've reviewed actually I don't know if I asked you this. You've reviewed Mr. Cooper's report in this case, correct? A. Yes. Q. Could you look at Page 10 of Mr. Cooper's report. In Figure 4 Mr. Cooper presents MS. ORMSBY: Dale, can I just is this from his initial report or MR. HO: Yes. I apologize. MS. ORMSBY: I'm sorry to interrupt. Q. (By Mr. Ho) No, no, no. It's fine. This is his initial report in this case, not his rebuttal report. Page 10, Figure 4 has decennial census data concerning the voting age population in the Ferguson-Florissant school district from 1990 to 2010. Do you see that?
5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	Q. And you also mentioned get-out-the-vote efforts in 2015? A. Yes. Based on media reports, I had the impression that people were putting more effort into this municipal election than would typically be the case. Q. And that national attention and those get-out-the-vote efforts, in your mind, that makes that marks something different about the 2015 election as compared to some previous ones? A. I think 2014, you know, it depends on I would say that we need to know what we're talking about, what different in what respect. Q. Uh-huh. A. Different in terms of voting outcomes, different in terms of turnout, I would say that with respect to turnout, it was the it was not the highest African-American turnout I reported. It actually was kind	4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	A. Okay. Q. On behalf of the plaintiffs. And you testified earlier that you've reviewed actually I don't know if I asked you this. You've reviewed Mr. Cooper's report in this case, correct? A. Yes. Q. Could you look at Page 10 of Mr. Cooper's report. In Figure 4 Mr. Cooper presents MS. ORMSBY: Dale, can I just is this from his initial report or MR. HO: Yes. I apologize. MS. ORMSBY: I'm sorry to interrupt. Q. (By Mr. Ho) No, no, no. It's fine. This is his initial report in this case, not his rebuttal report. Page 10, Figure 4 has decennial census data concerning the voting age population in the Ferguson-Florissant school district from 1990 to 2010. Do you see that? A. Yes.
5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	Q. And you also mentioned get-out-the-vote efforts in 2015? A. Yes. Based on media reports, I had the impression that people were putting more effort into this municipal election than would typically be the case. Q. And that national attention and those get-out-the-vote efforts, in your mind, that makes that marks something different about the 2015 election as compared to some previous ones? A. I think 2014, you know, it depends on I would say that we need to know what we're talking about, what different in what respect. Q. Uh-huh. A. Different in terms of voting outcomes, different in terms of turnout, I would say that with respect to turnout, it was the it was not the highest African-American turnout I reported. It actually was kind of, as I describe, a return to what African-American	4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	A. Okay. Q. On behalf of the plaintiffs. And you testified earlier that you've reviewed actually I don't know if I asked you this. You've reviewed Mr. Cooper's report in this case, correct? A. Yes. Q. Could you look at Page 10 of Mr. Cooper's report. In Figure 4 Mr. Cooper presents MS. ORMSBY: Dale, can I just is this from his initial report or MR. HO: Yes. I apologize. MS. ORMSBY: I'm sorry to interrupt. Q. (By Mr. Ho) No, no, no. It's fine. This is his initial report in this case, not his rebuttal report. Page 10, Figure 4 has decennial census data concerning the voting age population in the Ferguson-Florissant school district from 1990 to 2010. Do you see that?
5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	Q. And you also mentioned get-out-the-vote efforts in 2015? A. Yes. Based on media reports, I had the impression that people were putting more effort into this municipal election than would typically be the case. Q. And that national attention and those get-out-the-vote efforts, in your mind, that makes that marks something different about the 2015 election as compared to some previous ones? A. I think 2014, you know, it depends on I would say that we need to know what we're talking about, what different in what respect. Q. Uh-huh. A. Different in terms of voting outcomes, different in terms of turnout, I would say that with respect to turnout, it was the it was not the highest African-American turnout I reported. It actually was kind of, as I describe, a return to what African-American turnout looked like earlier around 2000. But as for	4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	A. Okay. Q. On behalf of the plaintiffs. And you testified earlier that you've reviewed actually I don't know if I asked you this. You've reviewed Mr. Cooper's report in this case, correct? A. Yes. Q. Could you look at Page 10 of Mr. Cooper's report. In Figure 4 Mr. Cooper presents MS. ORMSBY: Dale, can I just is this from his initial report or MR. HO: Yes. I apologize. MS. ORMSBY: I'm sorry to interrupt. Q. (By Mr. Ho) No, no, no. It's fine. This is his initial report in this case, not his rebuttal report. Page 10, Figure 4 has decennial census data concerning the voting age population in the Ferguson-Florissant school district from 1990 to 2010. Do you see that? A. Yes. Q. Do you dispute the accuracy of what he's
5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	Q. And you also mentioned get-out-the-vote efforts in 2015? A. Yes. Based on media reports, I had the impression that people were putting more effort into this municipal election than would typically be the case. Q. And that national attention and those get-out-the-vote efforts, in your mind, that makes that marks something different about the 2015 election as compared to some previous ones? A. I think 2014, you know, it depends on I would say that we need to know what we're talking about, what different in what respect. Q. Uh-huh. A. Different in terms of voting outcomes, different in terms of turnout, I would say that with respect to turnout, it was the it was not the highest African-American turnout I reported. It actually was kind of, as I describe, a return to what African-American	4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	A. Okay. Q. On behalf of the plaintiffs. And you testified earlier that you've reviewed actually I don't know if I asked you this. You've reviewed Mr. Cooper's report in this case, correct? A. Yes. Q. Could you look at Page 10 of Mr. Cooper's report. In Figure 4 Mr. Cooper presents MS. ORMSBY: Dale, can I just is this from his initial report or MR. HO: Yes. I apologize. MS. ORMSBY: I'm sorry to interrupt. Q. (By Mr. Ho) No, no, no. It's fine. This is his initial report in this case, not his rebuttal report. Page 10, Figure 4 has decennial census data concerning the voting age population in the Ferguson-Florissant school district from 1990 to 2010. Do you see that? A. Yes. Q. Do you dispute the accuracy of what he's represented here; that these are the the last three
5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	Q. And you also mentioned get-out-the-vote efforts in 2015? A. Yes. Based on media reports, I had the impression that people were putting more effort into this municipal election than would typically be the case. Q. And that national attention and those get-out-the-vote efforts, in your mind, that makes that marks something different about the 2015 election as compared to some previous ones? A. I think 2014, you know, it depends on I would say that we need to know what we're talking about, what different in what respect. Q. Uh-huh. A. Different in terms of voting outcomes, different in terms of turnout, I would say that with respect to turnout, it was the it was not the highest African-American turnout I reported. It actually was kind of, as I describe, a return to what African-American turnout looked like earlier around 2000. But as for whites, it was the second highest turnout they've had.	4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	A. Okay. Q. On behalf of the plaintiffs. And you testified earlier that you've reviewed actually I don't know if I asked you this. You've reviewed Mr. Cooper's report in this case, correct? A. Yes. Q. Could you look at Page 10 of Mr. Cooper's report. In Figure 4 Mr. Cooper presents MS. ORMSBY: Dale, can I just is this from his initial report or MR. HO: Yes. I apologize. MS. ORMSBY: I'm sorry to interrupt. Q. (By Mr. Ho) No, no, no. It's fine. This is his initial report in this case, not his rebuttal report. Page 10, Figure 4 has decennial census data concerning the voting age population in the Ferguson-Florissant school district from 1990 to 2010. Do you see that? A. Yes. Q. Do you dispute the accuracy of what he's represented here; that these are the the last three decennial census figures for the voting age population in

	Page 101		Page 103
1	are? No, I do not dispute.	1	Figure 3. The first observation comes from the 2000
2	Q. Okay. So to be clear, you do not dispute that	2	decennial census. For recent years I obtained three-year
3	according to the 2010 decennial census, blacks are less	3	population estimates from the American Community Survey,
4	than 50 percent of the voting age population of the	4	which has now replaced the long-form census. These are
5	Ferguson-Florissant school district, right?	5	placed on the graph at the position of the middle of the
6	A. I do not dispute that.	6	three years, but it must be stressed that these estimates
7	Q. And you do not dispute that, according to the	7	are averages of responses over three years.
8	2010 decennial census, whites outnumber blacks in terms of	8	Q. So
9	the voting age population of the Ferguson-Florissant	9	A. So these are three-year ACS that have been
10	school district, correct?	10	plotted, and to make things easier on the reader, I made a
11	A. By a very small amount, that is correct.	11	I just connected those those dots.
12	Q. Could we look back at your report, Dr. Rodden,	12	Q. So to be clear, the 2000 the data for the
13	Exhibit 4, and could we look at Page 6 in your report,	13	year 2000, that's decennial census data?
14	Figure 3. Figure 3 shows your presentation of your	14	A. Yes.
15	estimates of the voting age population within the	15	Q. Right. And then is there any other decennial
16	Ferguson-Florissant school district from 2000 to 2015,	16	census data that you used for purposes of this graph?
17	correct?	17	A. In this graph, no.
18	A. Correct.	18	Q. Okay. And you used ACS data through which
19	Q. And according to you, it is likely that blacks	19	year after 2000? So starting with 2001
20	are now a majority of the voting age population in the	20	A. I used I used all of the three-year ACS
21	Ferguson-Florissant school district, correct?	21	estimates that were available.
22	A. That is correct.	22	Q. Up until?
23	Q. And you define the term majority as more than	23	A. Until the most recent one, which is the
24	half, right?	24	2011-2013 ACS.
25	A. Yes.	25	Q. So you used that to generate data for the
	D 100		
	Page 102		Page 104
1	Page 102 O. So 50 percent plus one would be a majority?	1	Page 104 midpoint year, right, 2012?
1 2	•	1 2	•
	Q. So 50 percent plus one would be a majority?		midpoint year, right, 2012?
2	 Q. So 50 percent plus one would be a majority? A. Correct. Q. And that's different from a plurality, right? A group can be a plurality without being a majority? 	2 3 4	midpoint year, right, 2012? A. I used on the graph, yes, I want to be clear about that. On the graph, the 2011 to 2013 ACS is represented as a dot well, there is no dot, it's just a
2	 Q. So 50 percent plus one would be a majority? A. Correct. Q. And that's different from a plurality, right? A group can be a plurality without being a majority? A. That is correct. It's already, according to 	2 3 4 5	midpoint year, right, 2012? A. I used on the graph, yes, I want to be clear about that. On the graph, the 2011 to 2013 ACS is represented as a dot well, there is no dot, it's just a line, at 2012.
2 3 4 5 6	 Q. So 50 percent plus one would be a majority? A. Correct. Q. And that's different from a plurality, right? A group can be a plurality without being a majority? A. That is correct. It's already, according to the 2013 ACS, a plurality. But this is I do use the 	2 3 4 5 6	midpoint year, right, 2012? A. I used on the graph, yes, I want to be clear about that. On the graph, the 2011 to 2013 ACS is represented as a dot well, there is no dot, it's just a line, at 2012. Q. Okay. So just to get this straight, 2001
2 3 4 5 6 7	 Q. So 50 percent plus one would be a majority? A. Correct. Q. And that's different from a plurality, right? A group can be a plurality without being a majority? A. That is correct. It's already, according to the 2013 ACS, a plurality. But this is I do use the word majority on occasion, and that is and that comes 	2 3 4 5 6 7	midpoint year, right, 2012? A. I used on the graph, yes, I want to be clear about that. On the graph, the 2011 to 2013 ACS is represented as a dot well, there is no dot, it's just a line, at 2012. Q. Okay. So just to get this straight, 2001 through 2012, your calculations for the voting age
2 3 4 5 6 7 8	 Q. So 50 percent plus one would be a majority? A. Correct. Q. And that's different from a plurality, right? A group can be a plurality without being a majority? A. That is correct. It's already, according to the 2013 ACS, a plurality. But this is I do use the word majority on occasion, and that is and that comes from the continuation of the trend. 	2 3 4 5 6 7 8	midpoint year, right, 2012? A. I used on the graph, yes, I want to be clear about that. On the graph, the 2011 to 2013 ACS is represented as a dot well, there is no dot, it's just a line, at 2012. Q. Okay. So just to get this straight, 2001 through 2012, your calculations for the voting age population of the Ferguson-Florissant school district,
2 3 4 5 6 7 8	 Q. So 50 percent plus one would be a majority? A. Correct. Q. And that's different from a plurality, right? A group can be a plurality without being a majority? A. That is correct. It's already, according to the 2013 ACS, a plurality. But this is I do use the word majority on occasion, and that is and that comes from the continuation of the trend. Q. Right. So I want to ask about the data 	2 3 4 5 6 7 8	midpoint year, right, 2012? A. I used on the graph, yes, I want to be clear about that. On the graph, the 2011 to 2013 ACS is represented as a dot well, there is no dot, it's just a line, at 2012. Q. Okay. So just to get this straight, 2001 through 2012, your calculations for the voting age population of the Ferguson-Florissant school district, those are based on three-year ACS estimates, correct?
2 3 4 5 6 7 8 9	 Q. So 50 percent plus one would be a majority? A. Correct. Q. And that's different from a plurality, right? A group can be a plurality without being a majority? A. That is correct. It's already, according to the 2013 ACS, a plurality. But this is I do use the word majority on occasion, and that is and that comes from the continuation of the trend. Q. Right. So I want to ask about the data sources that you used to generate this graph. Am I 	2 3 4 5 6 7 8 9	midpoint year, right, 2012? A. I used on the graph, yes, I want to be clear about that. On the graph, the 2011 to 2013 ACS is represented as a dot well, there is no dot, it's just a line, at 2012. Q. Okay. So just to get this straight, 2001 through 2012, your calculations for the voting age population of the Ferguson-Florissant school district, those are based on three-year ACS estimates, correct? A. For the purpose of consistency in the
2 3 4 5 6 7 8 9 10	 Q. So 50 percent plus one would be a majority? A. Correct. Q. And that's different from a plurality, right? A group can be a plurality without being a majority? A. That is correct. It's already, according to the 2013 ACS, a plurality. But this is I do use the word majority on occasion, and that is and that comes from the continuation of the trend. Q. Right. So I want to ask about the data sources that you used to generate this graph. Am I correct that you have three different forms of data that 	2 3 4 5 6 7 8 9 10	midpoint year, right, 2012? A. I used on the graph, yes, I want to be clear about that. On the graph, the 2011 to 2013 ACS is represented as a dot well, there is no dot, it's just a line, at 2012. Q. Okay. So just to get this straight, 2001 through 2012, your calculations for the voting age population of the Ferguson-Florissant school district, those are based on three-year ACS estimates, correct? A. For the purpose of consistency in the presentation of this graph, I wanted to use as much
2 3 4 5 6 7 8 9 10 11	 Q. So 50 percent plus one would be a majority? A. Correct. Q. And that's different from a plurality, right? A group can be a plurality without being a majority? A. That is correct. It's already, according to the 2013 ACS, a plurality. But this is I do use the word majority on occasion, and that is and that comes from the continuation of the trend. Q. Right. So I want to ask about the data sources that you used to generate this graph. Am I correct that you have three different forms of data that are presented in this graph, decennial census data, ACS 	2 3 4 5 6 7 8 9 10 11 12	midpoint year, right, 2012? A. I used on the graph, yes, I want to be clear about that. On the graph, the 2011 to 2013 ACS is represented as a dot well, there is no dot, it's just a line, at 2012. Q. Okay. So just to get this straight, 2001 through 2012, your calculations for the voting age population of the Ferguson-Florissant school district, those are based on three-year ACS estimates, correct? A. For the purpose of consistency in the presentation of this graph, I wanted to use as much comparable data in the recent years as possible. I
2 3 4 5 6 7 8 9 10 11 12 13	 Q. So 50 percent plus one would be a majority? A. Correct. Q. And that's different from a plurality, right? A group can be a plurality without being a majority? A. That is correct. It's already, according to the 2013 ACS, a plurality. But this is I do use the word majority on occasion, and that is and that comes from the continuation of the trend. Q. Right. So I want to ask about the data sources that you used to generate this graph. Am I correct that you have three different forms of data that are presented in this graph, decennial census data, ACS data, and your own linear projections based on the ACS? 	2 3 4 5 6 7 8 9 10 11 12 13	midpoint year, right, 2012? A. I used on the graph, yes, I want to be clear about that. On the graph, the 2011 to 2013 ACS is represented as a dot well, there is no dot, it's just a line, at 2012. Q. Okay. So just to get this straight, 2001 through 2012, your calculations for the voting age population of the Ferguson-Florissant school district, those are based on three-year ACS estimates, correct? A. For the purpose of consistency in the presentation of this graph, I wanted to use as much comparable data in the recent years as possible. I certainly could have put the 2010 decennial data point on
2 3 4 5 6 7 8 9 10 11 12 13	 Q. So 50 percent plus one would be a majority? A. Correct. Q. And that's different from a plurality, right? A group can be a plurality without being a majority? A. That is correct. It's already, according to the 2013 ACS, a plurality. But this is I do use the word majority on occasion, and that is and that comes from the continuation of the trend. Q. Right. So I want to ask about the data sources that you used to generate this graph. Am I correct that you have three different forms of data that are presented in this graph, decennial census data, ACS data, and your own linear projections based on the ACS? A. That is correct. 	2 3 4 5 6 7 8 9 10 11 12 13	midpoint year, right, 2012? A. I used on the graph, yes, I want to be clear about that. On the graph, the 2011 to 2013 ACS is represented as a dot well, there is no dot, it's just a line, at 2012. Q. Okay. So just to get this straight, 2001 through 2012, your calculations for the voting age population of the Ferguson-Florissant school district, those are based on three-year ACS estimates, correct? A. For the purpose of consistency in the presentation of this graph, I wanted to use as much comparable data in the recent years as possible. I certainly could have put the 2010 decennial data point on the graph, but I chose not to because it would only it
2 3 4 5 6 7 8 9 10 11 12 13 14	 Q. So 50 percent plus one would be a majority? A. Correct. Q. And that's different from a plurality, right? A group can be a plurality without being a majority? A. That is correct. It's already, according to the 2013 ACS, a plurality. But this is I do use the word majority on occasion, and that is and that comes from the continuation of the trend. Q. Right. So I want to ask about the data sources that you used to generate this graph. Am I correct that you have three different forms of data that are presented in this graph, decennial census data, ACS data, and your own linear projections based on the ACS? A. That is correct. Q. Can you tell me which years for which you're 	2 3 4 5 6 7 8 9 10 11 12 13 14	midpoint year, right, 2012? A. I used on the graph, yes, I want to be clear about that. On the graph, the 2011 to 2013 ACS is represented as a dot well, there is no dot, it's just a line, at 2012. Q. Okay. So just to get this straight, 2001 through 2012, your calculations for the voting age population of the Ferguson-Florissant school district, those are based on three-year ACS estimates, correct? A. For the purpose of consistency in the presentation of this graph, I wanted to use as much comparable data in the recent years as possible. I certainly could have put the 2010 decennial data point on the graph, but I chose not to because it would only it would be apples and oranges.
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	 Q. So 50 percent plus one would be a majority? A. Correct. Q. And that's different from a plurality, right? A group can be a plurality without being a majority? A. That is correct. It's already, according to the 2013 ACS, a plurality. But this is I do use the word majority on occasion, and that is and that comes from the continuation of the trend. Q. Right. So I want to ask about the data sources that you used to generate this graph. Am I correct that you have three different forms of data that are presented in this graph, decennial census data, ACS data, and your own linear projections based on the ACS? A. That is correct. Q. Can you tell me which years for which you're presenting data you're using decennial census data? 	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	midpoint year, right, 2012? A. I used on the graph, yes, I want to be clear about that. On the graph, the 2011 to 2013 ACS is represented as a dot well, there is no dot, it's just a line, at 2012. Q. Okay. So just to get this straight, 2001 through 2012, your calculations for the voting age population of the Ferguson-Florissant school district, those are based on three-year ACS estimates, correct? A. For the purpose of consistency in the presentation of this graph, I wanted to use as much comparable data in the recent years as possible. I certainly could have put the 2010 decennial data point on the graph, but I chose not to because it would only it would be apples and oranges. Q. Yeah, I'm not questioning your choices.
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	 Q. So 50 percent plus one would be a majority? A. Correct. Q. And that's different from a plurality, right? A group can be a plurality without being a majority? A. That is correct. It's already, according to the 2013 ACS, a plurality. But this is I do use the word majority on occasion, and that is and that comes from the continuation of the trend. Q. Right. So I want to ask about the data sources that you used to generate this graph. Am I correct that you have three different forms of data that are presented in this graph, decennial census data, ACS data, and your own linear projections based on the ACS? A. That is correct. Q. Can you tell me which years for which you're presenting data you're using decennial census data? A. Yes. There is a decennial census data point 	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	midpoint year, right, 2012? A. I used on the graph, yes, I want to be clear about that. On the graph, the 2011 to 2013 ACS is represented as a dot well, there is no dot, it's just a line, at 2012. Q. Okay. So just to get this straight, 2001 through 2012, your calculations for the voting age population of the Ferguson-Florissant school district, those are based on three-year ACS estimates, correct? A. For the purpose of consistency in the presentation of this graph, I wanted to use as much comparable data in the recent years as possible. I certainly could have put the 2010 decennial data point on the graph, but I chose not to because it would only it would be apples and oranges. Q. Yeah, I'm not questioning your choices. A. I understand. I'm trying to clarify what I
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	 Q. So 50 percent plus one would be a majority? A. Correct. Q. And that's different from a plurality, right? A group can be a plurality without being a majority? A. That is correct. It's already, according to the 2013 ACS, a plurality. But this is I do use the word majority on occasion, and that is and that comes from the continuation of the trend. Q. Right. So I want to ask about the data sources that you used to generate this graph. Am I correct that you have three different forms of data that are presented in this graph, decennial census data, ACS data, and your own linear projections based on the ACS? A. That is correct. Q. Can you tell me which years for which you're presenting data you're using decennial census data? A. Yes. There is a decennial census data point at 2000. There is a decennial data point I'm sorry. 	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	midpoint year, right, 2012? A. I used on the graph, yes, I want to be clear about that. On the graph, the 2011 to 2013 ACS is represented as a dot well, there is no dot, it's just a line, at 2012. Q. Okay. So just to get this straight, 2001 through 2012, your calculations for the voting age population of the Ferguson-Florissant school district, those are based on three-year ACS estimates, correct? A. For the purpose of consistency in the presentation of this graph, I wanted to use as much comparable data in the recent years as possible. I certainly could have put the 2010 decennial data point on the graph, but I chose not to because it would only it would be apples and oranges. Q. Yeah, I'm not questioning your choices. A. I understand. I'm trying to clarify what I have done here.
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	 Q. So 50 percent plus one would be a majority? A. Correct. Q. And that's different from a plurality, right? A group can be a plurality without being a majority? A. That is correct. It's already, according to the 2013 ACS, a plurality. But this is I do use the word majority on occasion, and that is and that comes from the continuation of the trend. Q. Right. So I want to ask about the data sources that you used to generate this graph. Am I correct that you have three different forms of data that are presented in this graph, decennial census data, ACS data, and your own linear projections based on the ACS? A. That is correct. Q. Can you tell me which years for which you're presenting data you're using decennial census data? A. Yes. There is a decennial census data point at 2000. There is a decennial data point I'm sorry. Right. In this graph what I did is I started with the 	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	midpoint year, right, 2012? A. I used on the graph, yes, I want to be clear about that. On the graph, the 2011 to 2013 ACS is represented as a dot well, there is no dot, it's just a line, at 2012. Q. Okay. So just to get this straight, 2001 through 2012, your calculations for the voting age population of the Ferguson-Florissant school district, those are based on three-year ACS estimates, correct? A. For the purpose of consistency in the presentation of this graph, I wanted to use as much comparable data in the recent years as possible. I certainly could have put the 2010 decennial data point on the graph, but I chose not to because it would only it would be apples and oranges. Q. Yeah, I'm not questioning your choices. A. I understand. I'm trying to clarify what I have done here. Q. Yeah, yeah. I'm not questioning your choices
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	 Q. So 50 percent plus one would be a majority? A. Correct. Q. And that's different from a plurality, right? A group can be a plurality without being a majority? A. That is correct. It's already, according to the 2013 ACS, a plurality. But this is I do use the word majority on occasion, and that is and that comes from the continuation of the trend. Q. Right. So I want to ask about the data sources that you used to generate this graph. Am I correct that you have three different forms of data that are presented in this graph, decennial census data, ACS data, and your own linear projections based on the ACS? A. That is correct. Q. Can you tell me which years for which you're presenting data you're using decennial census data? A. Yes. There is a decennial census data point at 2000. There is a decennial data point I'm sorry. Right. In this graph what I did is I started with the 2000 decennial census, and then I use, in order to be 	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	midpoint year, right, 2012? A. I used on the graph, yes, I want to be clear about that. On the graph, the 2011 to 2013 ACS is represented as a dot well, there is no dot, it's just a line, at 2012. Q. Okay. So just to get this straight, 2001 through 2012, your calculations for the voting age population of the Ferguson-Florissant school district, those are based on three-year ACS estimates, correct? A. For the purpose of consistency in the presentation of this graph, I wanted to use as much comparable data in the recent years as possible. I certainly could have put the 2010 decennial data point on the graph, but I chose not to because it would only it would be apples and oranges. Q. Yeah, I'm not questioning your choices. A. I understand. I'm trying to clarify what I have done here. Q. Yeah, yeah. I'm not questioning your choices at all. I'm actually just trying to clarify
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	 Q. So 50 percent plus one would be a majority? A. Correct. Q. And that's different from a plurality, right? A group can be a plurality without being a majority? A. That is correct. It's already, according to the 2013 ACS, a plurality. But this is I do use the word majority on occasion, and that is and that comes from the continuation of the trend. Q. Right. So I want to ask about the data sources that you used to generate this graph. Am I correct that you have three different forms of data that are presented in this graph, decennial census data, ACS data, and your own linear projections based on the ACS? A. That is correct. Q. Can you tell me which years for which you're presenting data you're using decennial census data? A. Yes. There is a decennial census data point at 2000. There is a decennial data point I'm sorry. Right. In this graph what I did is I started with the 2000 decennial census, and then I use, in order to be consistent, especially to have that trend that flows from 	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	midpoint year, right, 2012? A. I used on the graph, yes, I want to be clear about that. On the graph, the 2011 to 2013 ACS is represented as a dot well, there is no dot, it's just a line, at 2012. Q. Okay. So just to get this straight, 2001 through 2012, your calculations for the voting age population of the Ferguson-Florissant school district, those are based on three-year ACS estimates, correct? A. For the purpose of consistency in the presentation of this graph, I wanted to use as much comparable data in the recent years as possible. I certainly could have put the 2010 decennial data point on the graph, but I chose not to because it would only it would be apples and oranges. Q. Yeah, I'm not questioning your choices. A. I understand. I'm trying to clarify what I have done here. Q. Yeah, yeah. I'm not questioning your choices at all. I'm actually just trying to clarify A. Sure.
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	 Q. So 50 percent plus one would be a majority? A. Correct. Q. And that's different from a plurality, right? A group can be a plurality without being a majority? A. That is correct. It's already, according to the 2013 ACS, a plurality. But this is I do use the word majority on occasion, and that is and that comes from the continuation of the trend. Q. Right. So I want to ask about the data sources that you used to generate this graph. Am I correct that you have three different forms of data that are presented in this graph, decennial census data, ACS data, and your own linear projections based on the ACS? A. That is correct. Q. Can you tell me which years for which you're presenting data you're using decennial census data? A. Yes. There is a decennial census data point at 2000. There is a decennial data point I'm sorry. Right. In this graph what I did is I started with the 2000 decennial census, and then I use, in order to be consistent, especially to have that trend that flows from it, I then start using let me read the text to make 	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	midpoint year, right, 2012? A. I used on the graph, yes, I want to be clear about that. On the graph, the 2011 to 2013 ACS is represented as a dot well, there is no dot, it's just a line, at 2012. Q. Okay. So just to get this straight, 2001 through 2012, your calculations for the voting age population of the Ferguson-Florissant school district, those are based on three-year ACS estimates, correct? A. For the purpose of consistency in the presentation of this graph, I wanted to use as much comparable data in the recent years as possible. I certainly could have put the 2010 decennial data point on the graph, but I chose not to because it would only it would be apples and oranges. Q. Yeah, I'm not questioning your choices. A. I understand. I'm trying to clarify what I have done here. Q. Yeah, yeah. I'm not questioning your choices at all. I'm actually just trying to clarify A. Sure. Q what is represented in each year.
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	 Q. So 50 percent plus one would be a majority? A. Correct. Q. And that's different from a plurality, right? A group can be a plurality without being a majority? A. That is correct. It's already, according to the 2013 ACS, a plurality. But this is I do use the word majority on occasion, and that is and that comes from the continuation of the trend. Q. Right. So I want to ask about the data sources that you used to generate this graph. Am I correct that you have three different forms of data that are presented in this graph, decennial census data, ACS data, and your own linear projections based on the ACS? A. That is correct. Q. Can you tell me which years for which you're presenting data you're using decennial census data? A. Yes. There is a decennial census data point at 2000. There is a decennial data point I'm sorry. Right. In this graph what I did is I started with the 2000 decennial census, and then I use, in order to be consistent, especially to have that trend that flows from it, I then start using let me read the text to make sure I don't misspeak. 	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	midpoint year, right, 2012? A. I used on the graph, yes, I want to be clear about that. On the graph, the 2011 to 2013 ACS is represented as a dot well, there is no dot, it's just a line, at 2012. Q. Okay. So just to get this straight, 2001 through 2012, your calculations for the voting age population of the Ferguson-Florissant school district, those are based on three-year ACS estimates, correct? A. For the purpose of consistency in the presentation of this graph, I wanted to use as much comparable data in the recent years as possible. I certainly could have put the 2010 decennial data point on the graph, but I chose not to because it would only it would be apples and oranges. Q. Yeah, I'm not questioning your choices. A. I understand. I'm trying to clarify what I have done here. Q. Yeah, yeah. I'm not questioning your choices at all. I'm actually just trying to clarify A. Sure. Q what is represented in each year. A. Sure.
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	 Q. So 50 percent plus one would be a majority? A. Correct. Q. And that's different from a plurality, right? A group can be a plurality without being a majority? A. That is correct. It's already, according to the 2013 ACS, a plurality. But this is I do use the word majority on occasion, and that is and that comes from the continuation of the trend. Q. Right. So I want to ask about the data sources that you used to generate this graph. Am I correct that you have three different forms of data that are presented in this graph, decennial census data, ACS data, and your own linear projections based on the ACS? A. That is correct. Q. Can you tell me which years for which you're presenting data you're using decennial census data? A. Yes. There is a decennial census data point at 2000. There is a decennial data point I'm sorry. Right. In this graph what I did is I started with the 2000 decennial census, and then I use, in order to be consistent, especially to have that trend that flows from it, I then start using let me read the text to make 	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	midpoint year, right, 2012? A. I used on the graph, yes, I want to be clear about that. On the graph, the 2011 to 2013 ACS is represented as a dot well, there is no dot, it's just a line, at 2012. Q. Okay. So just to get this straight, 2001 through 2012, your calculations for the voting age population of the Ferguson-Florissant school district, those are based on three-year ACS estimates, correct? A. For the purpose of consistency in the presentation of this graph, I wanted to use as much comparable data in the recent years as possible. I certainly could have put the 2010 decennial data point on the graph, but I chose not to because it would only it would be apples and oranges. Q. Yeah, I'm not questioning your choices. A. I understand. I'm trying to clarify what I have done here. Q. Yeah, yeah. I'm not questioning your choices at all. I'm actually just trying to clarify A. Sure. Q what is represented in each year.

	Page 105		Page 107
1	Ferguson-Florissant school district is decennial census	1	but not your projection, is what you're presenting for the
2	data, correct?	2	voting age population of the Ferguson-Florissant school
3	A. Yes, uh-huh.	3	district in 2012, correct?
4	Q. And for each of the years 2001 through 2012,	4	A. Technically 2013 would be the answer. 2013
5	you're presenting the voting age population for the	5	data collected in 2013 would go into that data point that,
6	Ferguson-Florissant school district with three-year ACS	6	on the graph, appears as 2012.
7	data, correct?	7	Q. Right. But the data that you're presenting
8	A. There are no three-year ACS estimates	8	from 2013 onward represents your linear projections
9	available as far back as the first part of the decade, and	9	A. Yes.
10	I don't, in my head right now, remember what was the first	10	Q correct? Okay. Let's look at an exhibit.
11	one that was available. So there is a that first part	11	I'll mark this as Rodden Exhibit 9.
12	of the graph is a I mean you can see, when you look at	12	(Whereupon, Rodden Deposition Exhibit No. 9
13	it, that it is a line that is connecting 2000 with	13	was marked for identification.)
14	whatever the first year was that the three-year ACS	14	Q. Now, this is a spreadsheet from an Excel file
15	estimates were available, which looks like it would be a	15	that your counsel sent to us. I believe this corresponds
16	midpoint year of 2008, I want to guess, just from looking	16	to what's presented in Figure 3. Does that look correct
17	at the graph, but I could be wrong by a year.	17	to you, Dr. Rodden?
18	Q. All right.	18	A. Yes.
19	A. So just to be clear, the first big chunk of	19	Q. Okay. So for the year 2012, and this is where
20	that white line or the black line is a connection of	20	you're presenting the midpoint it's the midpoint for
21	two dots that are pretty far apart.	21	the three-year estimate of ACS 2011 to 2013, right?
22	Q. Okay. So 2000 is decennial census data,	22	A. Yes.
23	there's a gap in the data, and somewhere around 2008 you	23	Q. Now, you are showing a white voting age
24	start presenting the voting age population of the	24	population, which I believe you can see on the first page
25	Ferguson-Florissant school district based on the ACS	25	of this chart, of 23,740, correct?
	Page 106		Page 108
1	estimates, correct?	1	A. Yes.
2	A. Correct.	2	Q. Could I ask you to just I'm going to give
3	Q. Okay. And that goes up until 2000, the data	3	you a sheet of paper and a pen. Could you write that
4	that you present for the voting age population of	4	down?
5	Ferguson-Florissant in 2012, correct?	5	A. (The witness complied.)
6	A. It's presented as 2012, but it is the period	6	Q. And on this chart you're showing a black
7	that covers 11 to 13.	7	voting age population in the Ferguson-Florissant school
8	Q. Right. And when you start presenting data for	8	district of 24,313; is that right?
9	the population, the voting age population of the	9	A. Yes.
10	Ferguson-Florissant school district after 2012, so	10	Q. Now, there are some people who are neither
11	starting with the year 2013, you're presenting your linear	11	white nor black living in the Ferguson-Florissant school
12	projections from the ACS data, correct?	12	district, right?
13	A. Yes.	13	A. Yes.
14	Q. Okay. So to be clear, in this graph the most	14	Q. I believe they are on the very last page of
15	recent year for which you are presenting purely government	15	your spreadsheet under the column Other, 18-plus; is that
16	data, without any projections by you, is the voting age	16	right?
	population of the Ferguson-Florissant school district in	17	A. I need to take a closer look and make sure
17	-	18	Q. Sure.
17 18	2012, correct?		
	2012, correct? A. No, it's the voting age population over the	19	 A how these are categorized here, so
18		19 20	A how these are categorized here, soQ. Sure. Take your time.
18 19	A. No, it's the voting age population over the		-
18 19 20	A. No, it's the voting age population over the period from 2011 to 13 as estimated from the sample that	20	Q. Sure. Take your time.
18 19 20 21	A. No, it's the voting age population over the period from 2011 to 13 as estimated from the sample that the ACS collected during those years. It is presented in	20 21	Q. Sure. Take your time.A. Yeah. I mean we can I can let's see
18 19 20 21 22	A. No, it's the voting age population over the period from 2011 to 13 as estimated from the sample that the ACS collected during those years. It is presented in the graph at 2012 because that seemed like a sensible way,	20 21 22	Q. Sure. Take your time. A. Yeah. I mean we can I can let's see here. We're looking at the year 2000. It's hard to work

	Page 109		Page 111
1	Q. We printed it out in the form that it was	1	total up the voting age population of the
2	given to us.	2	Ferguson-Florissant school district in 2012 using the ACS
3	MS. ORMSBY: Excel sheets.	3	data, the three-year ACS estimate?
4	A. So this is we're talking about line one,	4	A. 49,009.
5	two, three, four, five line five, is that correct?	5	Q. Okay. And what percentage of the voting age
6	Q. Uh-huh. Under the headers, the fifth line	6	population, according to the three-year ACS estimates, was
7	under the headers.	7	black in 2012?
8	A. Right, right.	8	A. 49.6.
9	Q. What may be helpful, Dr. Rodden, is that you	9	Q. So that's less than a majority, right, which
10	have, you know, estimated numbers only for certain	10	we defined as 50 percent plus one?
11	columns, right? You have an estimated number for the	11	A. That's correct.
12	White 18-plus column, you have an estimated number for the	12	Q. So according to the most recent data presented
13	Black 18-plus column, and the only other column for which	13	in your graph, apart from your linear projections,
14	you have an estimated number is the Other 18-plus, which	14	African-Americans are less than a majority of the voting
15	is on the back page.	15	age population
16	A. Yes. I'm just	16	A. No, single race African-Americans are less
17	MS. ORMSBY: Turn one more.	17	than are 49.6 percent, single race African-Americans.
18	A. Oh, there we are. Okay. So the question? I	18	We know that there are a number of additional people in
19	think I understand what we're looking at now.	19	the district who are reporting more than one race, and we
20	Q. Right. I'm trying to figure out where in this	20	know that many of them, the vast majority of them, one of
21	chart we have the voting age population of people who	21	the races is African-American. So it is correct that
22	don't fall into either the white or the black category,	22	according to this estimate, 49.6 percent of the voting age
23	and based on what's here, it seems like that's the Other	23	population is single race African-American, but it is very
24	18-plus column at the very end. Is that correct?	24	clear to any demographer who looks at these data that the
25	A. Yes. What I I just want to make sure	25	any part African-American population will be over 50
	Page 110		Page 112
1	there's no confusion about what is included here in Other	1	percent.
2	18-plus. So not having the spreadsheet handy with the	2	Q. Okay. But that's not presented here, right?
3	formula in it, I would want to make sure that that	3	A. No, that was
4	included my recollection is that this column includes	4	Q. I'm just asking about what's in your initial
5	includes everyone else for whom a breakdown was	5	report.
6	available, which would include Native-Americans, Asians	6	A. That was just this is just a graph meant to
7	and people reporting more than one race. That is my	7	visually to give the reader a visual sense of the
8	recollection of what's there.	8	population trend.
	Q. So in order to get the total voting age	9	Q. Okay. Based on the data presented here,
9			a. Okay. Based on the data presented here,
9 10	population of the Ferguson-Florissant school district, we	10	individuals who are single race African-American are less
10 11	population of the Ferguson-Florissant school district, we need to add up the numbers in those three columns, the	11	individuals who are single race African-American are less than a majority of the voting age population of the
10 11 12	population of the Ferguson-Florissant school district, we need to add up the numbers in those three columns, the White 18-plus, the Black 18-plus, and the Other 18-plus;	11 12	individuals who are single race African-American are less than a majority of the voting age population of the Ferguson-Florissant school district as of 2012, correct?
10 11 12 13	population of the Ferguson-Florissant school district, we need to add up the numbers in those three columns, the White 18-plus, the Black 18-plus, and the Other 18-plus; is that right?	11 12 13	individuals who are single race African-American are less than a majority of the voting age population of the Ferguson-Florissant school district as of 2012, correct? A. The as of 2012 part is hard, as we for
10 11 12 13 14	population of the Ferguson-Florissant school district, we need to add up the numbers in those three columns, the White 18-plus, the Black 18-plus, and the Other 18-plus; is that right? A. This is where yes, in theory. The question	11 12 13 14	individuals who are single race African-American are less than a majority of the voting age population of the Ferguson-Florissant school district as of 2012, correct? A. The as of 2012 part is hard, as we for reasons we discussed, that this is a summary of one year
10 11 12 13 14 15	population of the Ferguson-Florissant school district, we need to add up the numbers in those three columns, the White 18-plus, the Black 18-plus, and the Other 18-plus; is that right? A. This is where yes, in theory. The question is whether everyone is here in 18-plus column, but I	11 12 13 14 15	individuals who are single race African-American are less than a majority of the voting age population of the Ferguson-Florissant school district as of 2012, correct? A. The as of 2012 part is hard, as we for reasons we discussed, that this is a summary of one year information that is collected every year from 2011 to
10 11 12 13 14 15	population of the Ferguson-Florissant school district, we need to add up the numbers in those three columns, the White 18-plus, the Black 18-plus, and the Other 18-plus; is that right? A. This is where yes, in theory. The question is whether everyone is here in 18-plus column, but I believe let's assume that that's the case.	11 12 13 14 15	individuals who are single race African-American are less than a majority of the voting age population of the Ferguson-Florissant school district as of 2012, correct? A. The as of 2012 part is hard, as we for reasons we discussed, that this is a summary of one year information that is collected every year from 2011 to 2013, but that's just a small
10 11 12 13 14 15 16 17	population of the Ferguson-Florissant school district, we need to add up the numbers in those three columns, the White 18-plus, the Black 18-plus, and the Other 18-plus; is that right? A. This is where yes, in theory. The question is whether everyone is here in 18-plus column, but I believe let's assume that that's the case. Q. So there may be more people, but not less; not	11 12 13 14 15 16 17	individuals who are single race African-American are less than a majority of the voting age population of the Ferguson-Florissant school district as of 2012, correct? A. The as of 2012 part is hard, as we for reasons we discussed, that this is a summary of one year information that is collected every year from 2011 to 2013, but that's just a small Q. And you're using that three-year estimate from
10 11 12 13 14 15 16 17	population of the Ferguson-Florissant school district, we need to add up the numbers in those three columns, the White 18-plus, the Black 18-plus, and the Other 18-plus; is that right? A. This is where yes, in theory. The question is whether everyone is here in 18-plus column, but I believe let's assume that that's the case. Q. So there may be more people, but not less; not fewer, right, than what's in the Other 18-plus?	11 12 13 14 15 16 17	individuals who are single race African-American are less than a majority of the voting age population of the Ferguson-Florissant school district as of 2012, correct? A. The as of 2012 part is hard, as we for reasons we discussed, that this is a summary of one year information that is collected every year from 2011 to 2013, but that's just a small Q. And you're using that three-year estimate from 2011 to 2013 to produce an estimate from the ACS of the
10 11 12 13 14 15 16 17 18	population of the Ferguson-Florissant school district, we need to add up the numbers in those three columns, the White 18-plus, the Black 18-plus, and the Other 18-plus; is that right? A. This is where yes, in theory. The question is whether everyone is here in 18-plus column, but I believe let's assume that that's the case. Q. So there may be more people, but not less; not fewer, right, than what's in the Other 18-plus? A. I don't know, but I let's assume that this	11 12 13 14 15 16 17 18	individuals who are single race African-American are less than a majority of the voting age population of the Ferguson-Florissant school district as of 2012, correct? A. The as of 2012 part is hard, as we for reasons we discussed, that this is a summary of one year information that is collected every year from 2011 to 2013, but that's just a small Q. And you're using that three-year estimate from 2011 to 2013 to produce an estimate from the ACS of the voting age population of the Ferguson-Florissant school
10 11 12 13 14 15 16 17 18 19 20	population of the Ferguson-Florissant school district, we need to add up the numbers in those three columns, the White 18-plus, the Black 18-plus, and the Other 18-plus; is that right? A. This is where yes, in theory. The question is whether everyone is here in 18-plus column, but I believe let's assume that that's the case. Q. So there may be more people, but not less; not fewer, right, than what's in the Other 18-plus? A. I don't know, but I let's assume that this includes everyone who's in that category.	11 12 13 14 15 16 17 18 19 20	individuals who are single race African-American are less than a majority of the voting age population of the Ferguson-Florissant school district as of 2012, correct? A. The as of 2012 part is hard, as we for reasons we discussed, that this is a summary of one year information that is collected every year from 2011 to 2013, but that's just a small Q. And you're using that three-year estimate from 2011 to 2013 to produce an estimate from the ACS of the voting age population of the Ferguson-Florissant school district in 2012, correct, Dr. Rodden?
10 11 12 13 14 15 16 17 18 19 20 21	population of the Ferguson-Florissant school district, we need to add up the numbers in those three columns, the White 18-plus, the Black 18-plus, and the Other 18-plus; is that right? A. This is where yes, in theory. The question is whether everyone is here in 18-plus column, but I believe let's assume that that's the case. Q. So there may be more people, but not less; not fewer, right, than what's in the Other 18-plus? A. I don't know, but I let's assume that this includes everyone who's in that category. Q. Okay. So can you record that you have 956	11 12 13 14 15 16 17 18 19 20 21	individuals who are single race African-American are less than a majority of the voting age population of the Ferguson-Florissant school district as of 2012, correct? A. The as of 2012 part is hard, as we for reasons we discussed, that this is a summary of one year information that is collected every year from 2011 to 2013, but that's just a small Q. And you're using that three-year estimate from 2011 to 2013 to produce an estimate from the ACS of the voting age population of the Ferguson-Florissant school district in 2012, correct, Dr. Rodden? A. It is graphed as 2012 for visual purposes. I
10 11 12 13 14 15 16 17 18 19 20 21 22	population of the Ferguson-Florissant school district, we need to add up the numbers in those three columns, the White 18-plus, the Black 18-plus, and the Other 18-plus; is that right? A. This is where yes, in theory. The question is whether everyone is here in 18-plus column, but I believe let's assume that that's the case. Q. So there may be more people, but not less; not fewer, right, than what's in the Other 18-plus? A. I don't know, but I let's assume that this includes everyone who's in that category. Q. Okay. So can you record that you have 956 people in the corresponding year, which I believe is for	11 12 13 14 15 16 17 18 19 20 21 22	individuals who are single race African-American are less than a majority of the voting age population of the Ferguson-Florissant school district as of 2012, correct? A. The as of 2012 part is hard, as we for reasons we discussed, that this is a summary of one year information that is collected every year from 2011 to 2013, but that's just a small Q. And you're using that three-year estimate from 2011 to 2013 to produce an estimate from the ACS of the voting age population of the Ferguson-Florissant school district in 2012, correct, Dr. Rodden? A. It is graphed as 2012 for visual purposes. I do not mean to represent it as the information for 2012.
10 11 12 13 14 15 16 17 18 19 20 21 22 23	population of the Ferguson-Florissant school district, we need to add up the numbers in those three columns, the White 18-plus, the Black 18-plus, and the Other 18-plus; is that right? A. This is where yes, in theory. The question is whether everyone is here in 18-plus column, but I believe let's assume that that's the case. Q. So there may be more people, but not less; not fewer, right, than what's in the Other 18-plus? A. I don't know, but I let's assume that this includes everyone who's in that category. Q. Okay. So can you record that you have 956 people in the corresponding year, which I believe is for 2012, right, in the Other voting age population.	11 12 13 14 15 16 17 18 19 20 21 22 23	individuals who are single race African-American are less than a majority of the voting age population of the Ferguson-Florissant school district as of 2012, correct? A. The as of 2012 part is hard, as we for reasons we discussed, that this is a summary of one year information that is collected every year from 2011 to 2013, but that's just a small Q. And you're using that three-year estimate from 2011 to 2013 to produce an estimate from the ACS of the voting age population of the Ferguson-Florissant school district in 2012, correct, Dr. Rodden? A. It is graphed as 2012 for visual purposes. I do not mean to represent it as the information for 2012. In fact, a single year 2012, one-year estimates are
10 11 12 13 14 15 16 17 18 19 20 21 22	population of the Ferguson-Florissant school district, we need to add up the numbers in those three columns, the White 18-plus, the Black 18-plus, and the Other 18-plus; is that right? A. This is where yes, in theory. The question is whether everyone is here in 18-plus column, but I believe let's assume that that's the case. Q. So there may be more people, but not less; not fewer, right, than what's in the Other 18-plus? A. I don't know, but I let's assume that this includes everyone who's in that category. Q. Okay. So can you record that you have 956 people in the corresponding year, which I believe is for	11 12 13 14 15 16 17 18 19 20 21 22	individuals who are single race African-American are less than a majority of the voting age population of the Ferguson-Florissant school district as of 2012, correct? A. The as of 2012 part is hard, as we for reasons we discussed, that this is a summary of one year information that is collected every year from 2011 to 2013, but that's just a small Q. And you're using that three-year estimate from 2011 to 2013 to produce an estimate from the ACS of the voting age population of the Ferguson-Florissant school district in 2012, correct, Dr. Rodden? A. It is graphed as 2012 for visual purposes. I do not mean to represent it as the information for 2012.

	Page 113		Page 115
1	Q. You used three-year estimates from 2011 to	1	for whites. African-American population in the district
2	2013	2	has been increasing at a when we look visually at it,
3	A. Right.	3	we see that the rate of decrease over a long period of
4	Q to generate information for this graph?	4	time is much greater for whites. The rate of increase for
5	A. Yes.	5	African-Americans is it's more stable in the long run,
6	Q. For the voting age population of the	6	so if I had to guess what would be the more the larger
7	Ferguson-Florissant school district for 2012, correct?	7	impact of the events of last summer, I would be it
8	A. For the graph, 2012.	8	would surprise me if it led a lot of African-Americans to
9	Q. Right. And for purposes of that graph in your	9	leave the school district, especially since the a lot
10	report, individuals who are single member African-American	10	of the violence and protests did not occur within the
11	single member race African-American are less than a	11	school district, they took place outside the school
12	majority of the voting age population in the	12	district. But if there was any impact on the population,
13	Ferguson-Florissant school district in 2012, correct?	13	I would expect that the rate of decrease in the white
14	A. That is correct.	14	population probably increased.
15	Q. Now, subsequent to 2012, you present	15	Q. And as you said, that's a guess, right?
16	projections, starting in 2013, of the voting age	16	A. That is a guess.
17	population in the Ferguson-Florissant school district,	17	Q. You don't have
18	correct?	18	A. I have no idea.
19	A. Yes.	19	Q. You have no idea one way or the other, right?
20	Q. And those are linear projections based on the	20	A. That's right.
21	previous trends, Dr. Rodden?	21	Q. Okay. Now, we established earlier that the
22	A. Yes.	22	ACS data has confidence intervals or error margins
23	Q. Okay. Now, if you're looking at Page 6 in	23	associated with it, correct?
24	your report, the graph that shows population trends in the	24	A. Yes.
25	Ferguson-Florissant school district, the slopes of those	25	Q. You don't report those confidence intervals or
25	rengason-i torissant school district, the slopes of those		
	Page 114		Page 116
1	lines change from time to time, right?	1	error margins here, did you?
2	A. Yes. There is a single there's a single	2	A. No.
3	point that bumps upwards in mid year 2010.	3	Q. And your projections, because they're based on
4	Q. I mean if you did a linear projection starting	4	the ACS data, would also have confidence intervals
5	in the year 2005, that might look different from one	5	associated with it, wouldn't they?
6	starting in 2012, right?	6	A. Yes.
7	A. Sure. If there's a little bit of a	7	Q. And you don't present the confidence intervals
8	discontinuity, then you're going to get slightly different	8	for your projections of the population of the
9	results depending on what years you choose.	9	
			Ferguson-Florissant school district, correct, Dr. Rodden?
10	Q. And do you know sorry. Let me start that	10	Ferguson-Florissant school district, correct, Dr. Rodden? A. No, I don't.
10 11	Q. And do you know sorry. Let me start that again. Events can change the rate of these trends; you	1	-
	-	10	A. No, I don't.
11	again. Events can change the rate of these trends; you	10 11	A. No, I don't.Q. We established earlier that it's pretty
11 12	again. Events can change the rate of these trends; you would agree with that, right, Dr. Rodden?	10 11 12	A. No, I don't. Q. We established earlier that it's pretty standard practice in political science research in peer
11 12 13	again. Events can change the rate of these trends; you would agree with that, right, Dr. Rodden? A. Sure.	10 11 12 13	A. No, I don't. Q. We established earlier that it's pretty standard practice in political science research in peer review to present confidence intervals, didn't we, Dr.
11 12 13 14	again. Events can change the rate of these trends; you would agree with that, right, Dr. Rodden? A. Sure. Q. And you don't know if any events since 2013	10 11 12 13 14	A. No, I don't. Q. We established earlier that it's pretty standard practice in political science research in peer review to present confidence intervals, didn't we, Dr. Rodden?
11 12 13 14 15 16	again. Events can change the rate of these trends; you would agree with that, right, Dr. Rodden? A. Sure. Q. And you don't know if any events since 2013 may have changed these trends, do you? A. I don't know.	10 11 12 13 14 15	A. No, I don't. Q. We established earlier that it's pretty standard practice in political science research in peer review to present confidence intervals, didn't we, Dr. Rodden? A. Yes. Q. Now, we established earlier than when
11 12 13 14 15	again. Events can change the rate of these trends; you would agree with that, right, Dr. Rodden? A. Sure. Q. And you don't know if any events since 2013 may have changed these trends, do you? A. I don't know. Q. You don't know, for instance, the controversy	10 11 12 13 14 15 16	A. No, I don't. Q. We established earlier that it's pretty standard practice in political science research in peer review to present confidence intervals, didn't we, Dr. Rodden? A. Yes. Q. Now, we established earlier than when jurisdictions redistrict, they typically use decennial
11 12 13 14 15 16 17	again. Events can change the rate of these trends; you would agree with that, right, Dr. Rodden? A. Sure. Q. And you don't know if any events since 2013 may have changed these trends, do you? A. I don't know.	10 11 12 13 14 15 16	A. No, I don't. Q. We established earlier that it's pretty standard practice in political science research in peer review to present confidence intervals, didn't we, Dr. Rodden? A. Yes. Q. Now, we established earlier than when
11 12 13 14 15 16 17	again. Events can change the rate of these trends; you would agree with that, right, Dr. Rodden? A. Sure. Q. And you don't know if any events since 2013 may have changed these trends, do you? A. I don't know. Q. You don't know, for instance, the controversy over the shooting of Michael Brown may have made the Ferguson-Florissant area less attractive to incoming black	10 11 12 13 14 15 16 17	A. No, I don't. Q. We established earlier that it's pretty standard practice in political science research in peer review to present confidence intervals, didn't we, Dr. Rodden? A. Yes. Q. Now, we established earlier than when jurisdictions redistrict, they typically use decennial census data, right, Dr. Rodden? A. Correct.
11 12 13 14 15 16 17 18 19 20	again. Events can change the rate of these trends; you would agree with that, right, Dr. Rodden? A. Sure. Q. And you don't know if any events since 2013 may have changed these trends, do you? A. I don't know. Q. You don't know, for instance, the controversy over the shooting of Michael Brown may have made the Ferguson-Florissant area less attractive to incoming black residents, do you?	10 11 12 13 14 15 16 17 18 19	A. No, I don't. Q. We established earlier that it's pretty standard practice in political science research in peer review to present confidence intervals, didn't we, Dr. Rodden? A. Yes. Q. Now, we established earlier than when jurisdictions redistrict, they typically use decennial census data, right, Dr. Rodden? A. Correct. Q. Have you ever heard of a jurisdiction I
11 12 13 14 15 16 17 18 19 20 21	again. Events can change the rate of these trends; you would agree with that, right, Dr. Rodden? A. Sure. Q. And you don't know if any events since 2013 may have changed these trends, do you? A. I don't know. Q. You don't know, for instance, the controversy over the shooting of Michael Brown may have made the Ferguson-Florissant area less attractive to incoming black residents, do you? A. If I had to guess, I would guess that the rate	10 11 12 13 14 15 16 17 18	A. No, I don't. Q. We established earlier that it's pretty standard practice in political science research in peer review to present confidence intervals, didn't we, Dr. Rodden? A. Yes. Q. Now, we established earlier than when jurisdictions redistrict, they typically use decennial census data, right, Dr. Rodden? A. Correct. Q. Have you ever heard of a jurisdiction I mean and you have experience with redistricting based on
11 12 13 14 15 16 17 18 19 20 21 22	again. Events can change the rate of these trends; you would agree with that, right, Dr. Rodden? A. Sure. Q. And you don't know if any events since 2013 may have changed these trends, do you? A. I don't know. Q. You don't know, for instance, the controversy over the shooting of Michael Brown may have made the Ferguson-Florissant area less attractive to incoming black residents, do you? A. If I had to guess, I would guess that the rate of white exodus has increased. You will notice	10 11 12 13 14 15 16 17 18 19 20 21	A. No, I don't. Q. We established earlier that it's pretty standard practice in political science research in peer review to present confidence intervals, didn't we, Dr. Rodden? A. Yes. Q. Now, we established earlier than when jurisdictions redistrict, they typically use decennial census data, right, Dr. Rodden? A. Correct. Q. Have you ever heard of a jurisdiction I mean and you have experience with redistricting based on your research, right?
11 12 13 14 15 16 17 18 19 20 21 22 23	again. Events can change the rate of these trends; you would agree with that, right, Dr. Rodden? A. Sure. Q. And you don't know if any events since 2013 may have changed these trends, do you? A. I don't know. Q. You don't know, for instance, the controversy over the shooting of Michael Brown may have made the Ferguson-Florissant area less attractive to incoming black residents, do you? A. If I had to guess, I would guess that the rate of white exodus has increased. You will notice Q. But you don't have any data on that?	10 11 12 13 14 15 16 17 18 19 20 21 22 23	A. No, I don't. Q. We established earlier that it's pretty standard practice in political science research in peer review to present confidence intervals, didn't we, Dr. Rodden? A. Yes. Q. Now, we established earlier than when jurisdictions redistrict, they typically use decennial census data, right, Dr. Rodden? A. Correct. Q. Have you ever heard of a jurisdiction I mean and you have experience with redistricting based on your research, right? A. Yes.
11 12 13 14 15 16 17 18 19 20 21 22	again. Events can change the rate of these trends; you would agree with that, right, Dr. Rodden? A. Sure. Q. And you don't know if any events since 2013 may have changed these trends, do you? A. I don't know. Q. You don't know, for instance, the controversy over the shooting of Michael Brown may have made the Ferguson-Florissant area less attractive to incoming black residents, do you? A. If I had to guess, I would guess that the rate of white exodus has increased. You will notice	10 11 12 13 14 15 16 17 18 19 20 21 22	A. No, I don't. Q. We established earlier that it's pretty standard practice in political science research in peer review to present confidence intervals, didn't we, Dr. Rodden? A. Yes. Q. Now, we established earlier than when jurisdictions redistrict, they typically use decennial census data, right, Dr. Rodden? A. Correct. Q. Have you ever heard of a jurisdiction I mean and you have experience with redistricting based on your research, right?

	Page 117		Page 119
1	here as a basis for redistricting?	1	Q. Let's look at Page 20 of your report, Figure
2	A. For redistricting, as I described earlier,	2	7. Here, correct me if I'm wrong, but you are presenting
3	it's impossible, because there are no data available at a	3	an analysis of whether or not there's a correlation
4	sufficiently low level of aggregation to get the	4	between the percent black voting age population of
5	population counts that will fit within boundaries when	5	different precincts within the Ferguson-Florissant school
6	blocks are being assembled together for redistricting	6	district and the vote share received by black candidates
7	purposes.	7	in those precincts, correct?
8	Q. Could you take the decennial census data and	8	A. That is correct.
9	build linear projections off of it in the same way that	9	Q. And you're presenting data from the years 2012
10	you've done with the ACS?	10	through 2015, correct?
11	A. Yes.	11	A. Yes.
12	Q. And you've never heard of a jurisdiction using	12	Q. And you found a positive correlation between
13	linear projections from the decennial census data, which	13	African-American voting age population and
14	does have the level of detail necessary for redistricting,	14	African-American candidate share at precincts within the
15	you've never heard of a jurisdiction using linear	15	Ferguson-Florissant school district, correct?
16	projections from the decennial census data for purposes of	16	A. I do not report the correlation coefficient,
17	redistricting, have you?	17	but it is visually one can see that there is a a
18	A. Whether a jurisdiction uses projections at the	18	positive correlation in in each of these graphs.
19	from like from 10 years earlier to the next 10 years	19	Q. And what that means, in layperson's terms, is
20	and then projecting some population into the blocks? No,	20	that in all four elections that you looked at, 2012
21	I've never heard of that.	21	through 2015, as the black voting age population increases
22	Q. Okay. I want to move to Page 18 of your	22	in a precinct, generally speaking so too does the vote
23	report, the section with the header, "An Assessment of	23	share for black candidates, correct?
24	Race and Voting Behavior in Recent School Board	24	A. That is correct.
25	Elections." This is a part of your report where you	25	Q. On Page 21, Paragraph 39, the first sentence
	Page 118		Page 120
1	describe your analysis of whether or not voting patterns	1	states, "Figure 7 reveals that both African-Americans and
2	in the Ferguson-Florissant school district are racially	2	whites" sorry. Let me start that again. "Figure 7
3	polarized, correct, broadly speaking?	3	reveals that for both African-Americans and whites,
4	A. Yes.	4	significant crossover voting is the norm in
5	Q. And you would agree, wouldn't you, that when	5	Ferguson-Florissant School Board elections."
6	assessing whether voting is racially polarized, that	6	First, what do you mean by crossover voting?
7	recent elections are the most probative?	7	A. I mean situations in which whites vote for
8	A. I took that language from a court case and I	8	African-American candidates and when African-Americans
9	believe the courts will view it that way, but again, I am	9	vote for white candidates.
10	not an expert on that.	10	Q. Okay. And what do you mean by significant?
11	Q. As a social scientist, do you think that	11	A. I don't have a numerical threshold in mind.
12	recent elections are the most probative in assessing	12	The way I think about whether crossover voting is
13	whether voting is racially polarized?	13	significant here is with the bigger picture, where the
14	A. I think we can analyze any year we want to	14	whole goal of this analysis is to understand whether the
15	draw a conclusion about that year. I believe your	15	electoral system, as it stands, prevents African-Americans
16	question is for the purposes of voting rights case, what	16	from electing the candidates of their choice, and so we
17	is the most useful information, and I would again, this	17	want to know about racially polarized voting in order to
18	is I don't want to put myself in the Court's shoes, but	18	answer that question. And we want to know we need to
19	if I were the Court looking at this case, I would be more	19	know something about crossover voting as well to be able
20	interested in the more recent elections, but I would not	20	to answer that question, so
21	ignore I would find the information useful. I would	21	Q. Right. And when you say
22	like to get the big picture and know what has been	22	A crossover voting is significant if it if
23	happening over a long period of time and what the trends	23	it would affect the ability of an African-American
24	and the state of t	24	candidate of choice to be elected. As we try to
	are. I would find that to be useful information, but this	24	candidate of choice to be elected. As we try to
25	is up to the Court.	25	understand the answer to that question, there are

	Page 121		Page 123
1	situations in which crossover voting is significant. So I	1	There's an inferential problem here, right?
2	don't have a numerical standard in mind that is a kind of	2	A. Oh. Well, we're looking at I mean we're
3	a catchall universal standard for when we want to say that	3	buying in the purpose of this graph we're buying into a
4	crossover voting is significant.	4	precinct-level analysis, which is, of course, why we go on
5	Q. Dr. Rodden, the sentence that I asked you	5	later to do the ecological inference. I agree that just
6	about was one where you state, "Figure 7 reveals that both	6	looking at the aggregate data in this graph does not allow
7	African-Americans" "for both African-Americans and	7	us we don't look at this graph and say that we can draw
8	whites, significant crossover voting is the norm." So I	8	inferences necessarily about African-Americans and whites
9	want you to look at Figure 7	9	within precincts. That's why we do the ecological
10	A. Sure.	10	inference. However, this type of analysis is somewhat
11	Q and tell me where Figure 7 explains or	11	useful and it's also relied upon by the plaintiffs'
12	suggests that significant crossover voting is the norm and	12	experts in their homogenous precinct analysis which looks
13	how you define that crossover voting	13	at places that are 20 and 80 percent.
14	A. Yes.	14	That's the kind of analysis I'm drawing upon
15	Q as significant.	15	here, and what we see is that in precincts that are
16	A. In the year 2015 in the districts where in	16	overwhelmingly white, the African-American candidate
17	the precincts where the African-American share of voting	17	receives half the vote. That is the essential inferential
18	age population is 80 percent, we see that the votes of	18	strategy of homogenous precinct analysis. I agree with
19	African-American votes of African-American candidates	19	your critique of it. I prefer ecological inference.
20	is around 60 percent.	20	Q. Now, you're referring when you say that
21	If we go to the other side of the graph to	21	that reference was to the 2015 election, right? You're
22	places where African-American African-Americans make up	22	not making a reference to elections throughout time in the
23	20 percent of the population, we see that about half of	23	Ferguson-Florissant school district
24	the votes go to go to to African-American	24	A. I made I made reference to those in in
25	candidates. So this means that places that are 80 percent	25	answer to your question in looking at 2012 and 13. I did
	Page 122		Page 124
1	Page 122 white give half of their votes to African-American	1	Page 124 not make reference to 2014, because it's an outlier, as I
1 2	•	1 2	_
	white give half of their votes to African-American	1	not make reference to 2014, because it's an outlier, as I
2	white give half of their votes to African-American candidates, so that's one example.	2	not make reference to 2014, because it's an outlier, as I mentioned.
2	white give half of their votes to African-American candidates, so that's one example. If we look at 2013, we see that the	2 3	not make reference to 2014, because it's an outlier, as I mentioned. Q. Well
2 3 4	white give half of their votes to African-American candidates, so that's one example. If we look at 2013, we see that the combination of Chuck Henson and Mr. Thomas, in places that	2 3 4	not make reference to 2014, because it's an outlier, as I mentioned. Q. Well A. I agree that 2014 has very little crossover
2 3 4 5	white give half of their votes to African-American candidates, so that's one example. If we look at 2013, we see that the combination of Chuck Henson and Mr. Thomas, in places that had African-American voting age population shares of 80	2 3 4 5	not make reference to 2014, because it's an outlier, as I mentioned. Q. Well A. I agree that 2014 has very little crossover voting, although it does have some.
2 3 4 5 6	white give half of their votes to African-American candidates, so that's one example. If we look at 2013, we see that the combination of Chuck Henson and Mr. Thomas, in places that had African-American voting age population shares of 80 percent, we see that the combined vote shares of the	2 3 4 5 6	not make reference to 2014, because it's an outlier, as I mentioned. Q. Well A. I agree that 2014 has very little crossover voting, although it does have some. Q. Well, Dr. Rodden, you cut me off, so I'll ask
2 3 4 5 6 7	white give half of their votes to African-American candidates, so that's one example. If we look at 2013, we see that the combination of Chuck Henson and Mr. Thomas, in places that had African-American voting age population shares of 80 percent, we see that the combined vote shares of the African-American candidates were well less than half.	2 3 4 5 6 7	not make reference to 2014, because it's an outlier, as I mentioned. Q. Well A. I agree that 2014 has very little crossover voting, although it does have some. Q. Well, Dr. Rodden, you cut me off, so I'll ask you to let me finish my question before you start
2 3 4 5 6 7 8	white give half of their votes to African-American candidates, so that's one example. If we look at 2013, we see that the combination of Chuck Henson and Mr. Thomas, in places that had African-American voting age population shares of 80 percent, we see that the combined vote shares of the African-American candidates were well less than half. In 2012 we see that when the voting age	2 3 4 5 6 7 8	not make reference to 2014, because it's an outlier, as I mentioned. Q. Well A. I agree that 2014 has very little crossover voting, although it does have some. Q. Well, Dr. Rodden, you cut me off, so I'll ask you to let me finish my question before you start answering, right? When you said that half of the votes in
2 3 4 5 6 7 8	white give half of their votes to African-American candidates, so that's one example. If we look at 2013, we see that the combination of Chuck Henson and Mr. Thomas, in places that had African-American voting age population shares of 80 percent, we see that the combined vote shares of the African-American candidates were well less than half. In 2012 we see that when the voting age population is 80 percent African-American, we see that a	2 3 4 5 6 7 8	not make reference to 2014, because it's an outlier, as I mentioned. Q. Well A. I agree that 2014 has very little crossover voting, although it does have some. Q. Well, Dr. Rodden, you cut me off, so I'll ask you to let me finish my question before you start answering, right? When you said that half of the votes in overwhelmingly white precincts go to black candidates,
2 3 4 5 6 7 8 9	white give half of their votes to African-American candidates, so that's one example. If we look at 2013, we see that the combination of Chuck Henson and Mr. Thomas, in places that had African-American voting age population shares of 80 percent, we see that the combined vote shares of the African-American candidates were well less than half. In 2012 we see that when the voting age population is 80 percent African-American, we see that a little less than half of the votes go to African-American	2 3 4 5 6 7 8 9	not make reference to 2014, because it's an outlier, as I mentioned. Q. Well A. I agree that 2014 has very little crossover voting, although it does have some. Q. Well, Dr. Rodden, you cut me off, so I'll ask you to let me finish my question before you start answering, right? When you said that half of the votes in overwhelmingly white precincts go to black candidates, you're referring to the 2015 election, right? Because if
2 3 4 5 6 7 8 9 10 11 12 13	white give half of their votes to African-American candidates, so that's one example. If we look at 2013, we see that the combination of Chuck Henson and Mr. Thomas, in places that had African-American voting age population shares of 80 percent, we see that the combined vote shares of the African-American candidates were well less than half. In 2012 we see that when the voting age population is 80 percent African-American, we see that a little less than half of the votes go to African-American candidates. So I would say that there are substantial	2 3 4 5 6 7 8 9 10	not make reference to 2014, because it's an outlier, as I mentioned. Q. Well A. I agree that 2014 has very little crossover voting, although it does have some. Q. Well, Dr. Rodden, you cut me off, so I'll ask you to let me finish my question before you start answering, right? When you said that half of the votes in overwhelmingly white precincts go to black candidates, you're referring to the 2015 election, right? Because if you look at 2012, that is not the case for the precincts
2 3 4 5 6 7 8 9 10 11 12 13	white give half of their votes to African-American candidates, so that's one example. If we look at 2013, we see that the combination of Chuck Henson and Mr. Thomas, in places that had African-American voting age population shares of 80 percent, we see that the combined vote shares of the African-American candidates were well less than half. In 2012 we see that when the voting age population is 80 percent African-American, we see that a little less than half of the votes go to African-American candidates. So I would say that there are substantial numbers of people, when you can find lots of examples just in the last four elections, in which something like half of the votes cast by a group are going to the members of	2 3 4 5 6 7 8 9 10 11	not make reference to 2014, because it's an outlier, as I mentioned. Q. Well A. I agree that 2014 has very little crossover voting, although it does have some. Q. Well, Dr. Rodden, you cut me off, so I'll ask you to let me finish my question before you start answering, right? When you said that half of the votes in overwhelmingly white precincts go to black candidates, you're referring to the 2015 election, right? Because if you look at 2012, that is not the case for the precincts that are 80 percent white, correct, Dr. Rodden?
2 3 4 5 6 7 8 9 10 11 12 13 14	white give half of their votes to African-American candidates, so that's one example. If we look at 2013, we see that the combination of Chuck Henson and Mr. Thomas, in places that had African-American voting age population shares of 80 percent, we see that the combined vote shares of the African-American candidates were well less than half. In 2012 we see that when the voting age population is 80 percent African-American, we see that a little less than half of the votes go to African-American candidates. So I would say that there are substantial numbers of people, when you can find lots of examples just in the last four elections, in which something like half of the votes cast by a group are going to the members of the opposite group, then I would say there is significant	2 3 4 5 6 7 8 9 10 11 12 13 14	not make reference to 2014, because it's an outlier, as I mentioned. Q. Well A. I agree that 2014 has very little crossover voting, although it does have some. Q. Well, Dr. Rodden, you cut me off, so I'll ask you to let me finish my question before you start answering, right? When you said that half of the votes in overwhelmingly white precincts go to black candidates, you're referring to the 2015 election, right? Because if you look at 2012, that is not the case for the precincts that are 80 percent white, correct, Dr. Rodden? A. That is correct. Q. Okay. So your statement that half of the votes go to black candidates in overwhelmingly white
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	white give half of their votes to African-American candidates, so that's one example. If we look at 2013, we see that the combination of Chuck Henson and Mr. Thomas, in places that had African-American voting age population shares of 80 percent, we see that the combined vote shares of the African-American candidates were well less than half. In 2012 we see that when the voting age population is 80 percent African-American, we see that a little less than half of the votes go to African-American candidates. So I would say that there are substantial numbers of people, when you can find lots of examples just in the last four elections, in which something like half of the votes cast by a group are going to the members of the opposite group, then I would say there is significant crossover voting.	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	not make reference to 2014, because it's an outlier, as I mentioned. Q. Well A. I agree that 2014 has very little crossover voting, although it does have some. Q. Well, Dr. Rodden, you cut me off, so I'll ask you to let me finish my question before you start answering, right? When you said that half of the votes in overwhelmingly white precincts go to black candidates, you're referring to the 2015 election, right? Because if you look at 2012, that is not the case for the precincts that are 80 percent white, correct, Dr. Rodden? A. That is correct. Q. Okay. So your statement that half of the votes go to black candidates in overwhelmingly white precincts was a reference to the 2015 election,
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	white give half of their votes to African-American candidates, so that's one example. If we look at 2013, we see that the combination of Chuck Henson and Mr. Thomas, in places that had African-American voting age population shares of 80 percent, we see that the combined vote shares of the African-American candidates were well less than half. In 2012 we see that when the voting age population is 80 percent African-American, we see that a little less than half of the votes go to African-American candidates. So I would say that there are substantial numbers of people, when you can find lots of examples just in the last four elections, in which something like half of the votes cast by a group are going to the members of the opposite group, then I would say there is significant crossover voting. Q. Well, just to take one example, you didn't say	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	not make reference to 2014, because it's an outlier, as I mentioned. Q. Well A. I agree that 2014 has very little crossover voting, although it does have some. Q. Well, Dr. Rodden, you cut me off, so I'll ask you to let me finish my question before you start answering, right? When you said that half of the votes in overwhelmingly white precincts go to black candidates, you're referring to the 2015 election, right? Because if you look at 2012, that is not the case for the precincts that are 80 percent white, correct, Dr. Rodden? A. That is correct. Q. Okay. So your statement that half of the votes go to black candidates in overwhelmingly white precincts was a reference to the 2015 election, specifically precincts that are 80 percent white, correct?
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	white give half of their votes to African-American candidates, so that's one example. If we look at 2013, we see that the combination of Chuck Henson and Mr. Thomas, in places that had African-American voting age population shares of 80 percent, we see that the combined vote shares of the African-American candidates were well less than half. In 2012 we see that when the voting age population is 80 percent African-American, we see that a little less than half of the votes go to African-American candidates. So I would say that there are substantial numbers of people, when you can find lots of examples just in the last four elections, in which something like half of the votes cast by a group are going to the members of the opposite group, then I would say there is significant crossover voting. Q. Well, just to take one example, you didn't say that half the members of a group were going to	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	not make reference to 2014, because it's an outlier, as I mentioned. Q. Well A. I agree that 2014 has very little crossover voting, although it does have some. Q. Well, Dr. Rodden, you cut me off, so I'll ask you to let me finish my question before you start answering, right? When you said that half of the votes in overwhelmingly white precincts go to black candidates, you're referring to the 2015 election, right? Because if you look at 2012, that is not the case for the precincts that are 80 percent white, correct, Dr. Rodden? A. That is correct. Q. Okay. So your statement that half of the votes go to black candidates in overwhelmingly white precincts was a reference to the 2015 election, specifically precincts that are 80 percent white, correct? A. Yes. You asked for an example and I provided
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	white give half of their votes to African-American candidates, so that's one example. If we look at 2013, we see that the combination of Chuck Henson and Mr. Thomas, in places that had African-American voting age population shares of 80 percent, we see that the combined vote shares of the African-American candidates were well less than half. In 2012 we see that when the voting age population is 80 percent African-American, we see that a little less than half of the votes go to African-American candidates. So I would say that there are substantial numbers of people, when you can find lots of examples just in the last four elections, in which something like half of the votes cast by a group are going to the members of the opposite group, then I would say there is significant crossover voting. Q. Well, just to take one example, you didn't say that half the members of a group were going to African-American candidates in 2015. What you said,	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	not make reference to 2014, because it's an outlier, as I mentioned. Q. Well A. I agree that 2014 has very little crossover voting, although it does have some. Q. Well, Dr. Rodden, you cut me off, so I'll ask you to let me finish my question before you start answering, right? When you said that half of the votes in overwhelmingly white precincts go to black candidates, you're referring to the 2015 election, right? Because if you look at 2012, that is not the case for the precincts that are 80 percent white, correct, Dr. Rodden? A. That is correct. Q. Okay. So your statement that half of the votes go to black candidates in overwhelmingly white precincts was a reference to the 2015 election, specifically precincts that are 80 percent white, correct? A. Yes. You asked for an example and I provided that one.
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	white give half of their votes to African-American candidates, so that's one example. If we look at 2013, we see that the combination of Chuck Henson and Mr. Thomas, in places that had African-American voting age population shares of 80 percent, we see that the combined vote shares of the African-American candidates were well less than half. In 2012 we see that when the voting age population is 80 percent African-American, we see that a little less than half of the votes go to African-American candidates. So I would say that there are substantial numbers of people, when you can find lots of examples just in the last four elections, in which something like half of the votes cast by a group are going to the members of the opposite group, then I would say there is significant crossover voting. Q. Well, just to take one example, you didn't say that half the members of a group were going to African-American candidates in 2015. What you said, correct me if I'm wrong, Dr. Rodden, is that in a precinct	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	not make reference to 2014, because it's an outlier, as I mentioned. Q. Well A. I agree that 2014 has very little crossover voting, although it does have some. Q. Well, Dr. Rodden, you cut me off, so I'll ask you to let me finish my question before you start answering, right? When you said that half of the votes in overwhelmingly white precincts go to black candidates, you're referring to the 2015 election, right? Because if you look at 2012, that is not the case for the precincts that are 80 percent white, correct, Dr. Rodden? A. That is correct. Q. Okay. So your statement that half of the votes go to black candidates in overwhelmingly white precincts was a reference to the 2015 election, specifically precincts that are 80 percent white, correct? A. Yes. You asked for an example and I provided that one. Q. Okay.
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	white give half of their votes to African-American candidates, so that's one example. If we look at 2013, we see that the combination of Chuck Henson and Mr. Thomas, in places that had African-American voting age population shares of 80 percent, we see that the combined vote shares of the African-American candidates were well less than half. In 2012 we see that when the voting age population is 80 percent African-American, we see that a little less than half of the votes go to African-American candidates. So I would say that there are substantial numbers of people, when you can find lots of examples just in the last four elections, in which something like half of the votes cast by a group are going to the members of the opposite group, then I would say there is significant crossover voting. Q. Well, just to take one example, you didn't say that half the members of a group were going to African-American candidates in 2015. What you said, correct me if I'm wrong, Dr. Rodden, is that in a precinct that is 80 percent white, about half of the votes go to	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	not make reference to 2014, because it's an outlier, as I mentioned. Q. Well A. I agree that 2014 has very little crossover voting, although it does have some. Q. Well, Dr. Rodden, you cut me off, so I'll ask you to let me finish my question before you start answering, right? When you said that half of the votes in overwhelmingly white precincts go to black candidates, you're referring to the 2015 election, right? Because if you look at 2012, that is not the case for the precincts that are 80 percent white, correct, Dr. Rodden? A. That is correct. Q. Okay. So your statement that half of the votes go to black candidates in overwhelmingly white precincts was a reference to the 2015 election, specifically precincts that are 80 percent white, correct? A. Yes. You asked for an example and I provided that one. Q. Okay. A. I would point out that in 2013 in this
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	white give half of their votes to African-American candidates, so that's one example. If we look at 2013, we see that the combination of Chuck Henson and Mr. Thomas, in places that had African-American voting age population shares of 80 percent, we see that the combined vote shares of the African-American candidates were well less than half. In 2012 we see that when the voting age population is 80 percent African-American, we see that a little less than half of the votes go to African-American candidates. So I would say that there are substantial numbers of people, when you can find lots of examples just in the last four elections, in which something like half of the votes cast by a group are going to the members of the opposite group, then I would say there is significant crossover voting. Q. Well, just to take one example, you didn't say that half the members of a group were going to African-American candidates in 2015. What you said, correct me if I'm wrong, Dr. Rodden, is that in a precinct that is 80 percent white, about half of the votes go to black candidates. That's what you said, right?	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	not make reference to 2014, because it's an outlier, as I mentioned. Q. Well A. I agree that 2014 has very little crossover voting, although it does have some. Q. Well, Dr. Rodden, you cut me off, so I'll ask you to let me finish my question before you start answering, right? When you said that half of the votes in overwhelmingly white precincts go to black candidates, you're referring to the 2015 election, right? Because if you look at 2012, that is not the case for the precincts that are 80 percent white, correct, Dr. Rodden? A. That is correct. Q. Okay. So your statement that half of the votes go to black candidates in overwhelmingly white precincts was a reference to the 2015 election, specifically precincts that are 80 percent white, correct? A. Yes. You asked for an example and I provided that one. Q. Okay. A. I would point out that in 2013 in this graph, we can,
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	white give half of their votes to African-American candidates, so that's one example. If we look at 2013, we see that the combination of Chuck Henson and Mr. Thomas, in places that had African-American voting age population shares of 80 percent, we see that the combined vote shares of the African-American candidates were well less than half. In 2012 we see that when the voting age population is 80 percent African-American, we see that a little less than half of the votes go to African-American candidates. So I would say that there are substantial numbers of people, when you can find lots of examples just in the last four elections, in which something like half of the votes cast by a group are going to the members of the opposite group, then I would say there is significant crossover voting. Q. Well, just to take one example, you didn't say that half the members of a group were going to African-American candidates in 2015. What you said, correct me if I'm wrong, Dr. Rodden, is that in a precinct that is 80 percent white, about half of the votes go to black candidates. That's what you said, right? A. Yes.	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	not make reference to 2014, because it's an outlier, as I mentioned. Q. Well A. I agree that 2014 has very little crossover voting, although it does have some. Q. Well, Dr. Rodden, you cut me off, so I'll ask you to let me finish my question before you start answering, right? When you said that half of the votes in overwhelmingly white precincts go to black candidates, you're referring to the 2015 election, right? Because if you look at 2012, that is not the case for the precincts that are 80 percent white, correct, Dr. Rodden? A. That is correct. Q. Okay. So your statement that half of the votes go to black candidates in overwhelmingly white precincts was a reference to the 2015 election, specifically precincts that are 80 percent white, correct? A. Yes. You asked for an example and I provided that one. Q. Okay. A. I would point out that in 2013 in this graph if we would like to stay with this graph, we can, otherwise we can go to the ecological inference analysis,
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	white give half of their votes to African-American candidates, so that's one example. If we look at 2013, we see that the combination of Chuck Henson and Mr. Thomas, in places that had African-American voting age population shares of 80 percent, we see that the combined vote shares of the African-American candidates were well less than half. In 2012 we see that when the voting age population is 80 percent African-American, we see that a little less than half of the votes go to African-American candidates. So I would say that there are substantial numbers of people, when you can find lots of examples just in the last four elections, in which something like half of the votes cast by a group are going to the members of the opposite group, then I would say there is significant crossover voting. Q. Well, just to take one example, you didn't say that half the members of a group were going to African-American candidates in 2015. What you said, correct me if I'm wrong, Dr. Rodden, is that in a precinct that is 80 percent white, about half of the votes go to black candidates. That's what you said, right?	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	not make reference to 2014, because it's an outlier, as I mentioned. Q. Well A. I agree that 2014 has very little crossover voting, although it does have some. Q. Well, Dr. Rodden, you cut me off, so I'll ask you to let me finish my question before you start answering, right? When you said that half of the votes in overwhelmingly white precincts go to black candidates, you're referring to the 2015 election, right? Because if you look at 2012, that is not the case for the precincts that are 80 percent white, correct, Dr. Rodden? A. That is correct. Q. Okay. So your statement that half of the votes go to black candidates in overwhelmingly white precincts was a reference to the 2015 election, specifically precincts that are 80 percent white, correct? A. Yes. You asked for an example and I provided that one. Q. Okay. A. I would point out that in 2013 in this graph, we can,

	Page 125		Page 127
1	the combined vote share of Charles Henson and Mr. Thomas	1	all others are viewed as the other, and I know that it's
2	was in the 30s.	2	perfectly possible to do the analysis both ways. I'm
3	Q. Well, we'll talk about each election	3	quite confident that the results looked very similar both
4	specifically in a little bit more detail, Dr. Rodden, but	4	ways. I believe I have done this, and I certainly would
5	I just want to understand what this analysis is. Now, on	5	be able to check and get you the answer if I had access to
6	Page 23 in Paragraph 42 you explain that, "These aggregate	6	my files. I believe that this analysis was done with a
7	vote totals, according to the race of the candidates, mask	7	strict comparison of African-American and whites, but I
8	a good deal of important variation across candidates, and	8	need to check.
9	indeed the Supreme Court in Gingles calls for a more	9	Q. Okay. I want to mark two exhibits as Rodden
10	fine-grained analysis."	10	Exhibits 10 and 11.
11	Did I read that right?	11	(Whereupon, Rodden Deposition Exhibits 10 and
12	A. Yes.	12	11 were marked for identification.)
13	Q. So this is not a fine-grained analysis,	13	Q. So 10 is what was produced to us by your
14	correct?	14	counsel. Exhibit 10 is what was produced to us by your
15	A. That's correct.	15	counsel when we asked for the underlying data for Figure
16	Q. And this is not the kind of fine-grained	16	8. And could you just take a look at that and tell us,
17	analysis that the Supreme Court calls for in Gingles,	17	does this look like the data that corresponds the
18	correct?	18	numerical data that corresponds to what you're presenting
19	A. Well, I have testified that I am not an expert	19	visually in Figure 8?
20	in case law. I do know that these correlations between	20	A. It does. It does indeed. I might like to ask
21	between the kinds of correlations displayed in Figure 7	21	if we are going to stay for another 20 minutes, if I might
22	are sometimes called upon, which is why I included them.	22	take a very quick bathroom break.
23	But I believe, indeed, that it's important to go on and do	23	Q. We could always just break for lunch now if
24	the next step.	24	that makes sense.
25	Q. Okay. So let's look at Page 25, Figure 8 in	25	(A discussion was held off the record and a
2.0	a. Oray. 30 lot 3 look at 1 ago 25/1 lgal 6 5 lll	20	(it discussion was note on the resort and a
	Page 126		Page 128
1	Page 126 your report. This presents your ecological inference	1	Page 128 lunch recess was taken from 12:38 to 1:45 P.M.)
1 2	_	1 2	_
	your report. This presents your ecological inference		lunch recess was taken from 12:38 to 1:45 P.M.)
2	your report. This presents your ecological inference estimates for black and white support for each candidate	2	lunch recess was taken from 12:38 to 1:45 P.M.) Q. Dr. Rodden, before the lunch break, we were
2	your report. This presents your ecological inference estimates for black and white support for each candidate in elections going back to the 2000 election, correct?	2	lunch recess was taken from 12:38 to 1:45 P.M.) Q. Dr. Rodden, before the lunch break, we were talking about what's been marked as Rodden Exhibit 10.
2 3 4	your report. This presents your ecological inference estimates for black and white support for each candidate in elections going back to the 2000 election, correct? A. Yes.	2 3 4	lunch recess was taken from 12:38 to 1:45 P.M.) Q. Dr. Rodden, before the lunch break, we were talking about what's been marked as Rodden Exhibit 10. This is the Excel spreadsheet that corresponds to Figure 8
2 3 4 5	your report. This presents your ecological inference estimates for black and white support for each candidate in elections going back to the 2000 election, correct? A. Yes. Q. Now, I want to be clear as what's represented	2 3 4 5	lunch recess was taken from 12:38 to 1:45 P.M.) Q. Dr. Rodden, before the lunch break, we were talking about what's been marked as Rodden Exhibit 10. This is the Excel spreadsheet that corresponds to Figure 8 in your report, correct?
2 3 4 5 6	your report. This presents your ecological inference estimates for black and white support for each candidate in elections going back to the 2000 election, correct? A. Yes. Q. Now, I want to be clear as what's represented here. When you say white support for a candidate or white	2 3 4 5 6	lunch recess was taken from 12:38 to 1:45 P.M.) Q. Dr. Rodden, before the lunch break, we were talking about what's been marked as Rodden Exhibit 10. This is the Excel spreadsheet that corresponds to Figure 8 in your report, correct? A. Yes.
2 3 4 5 6 7	your report. This presents your ecological inference estimates for black and white support for each candidate in elections going back to the 2000 election, correct? A. Yes. Q. Now, I want to be clear as what's represented here. When you say white support for a candidate or white vote share for a candidate in Figure 8, you're referring	2 3 4 5 6 7	lunch recess was taken from 12:38 to 1:45 P.M.) Q. Dr. Rodden, before the lunch break, we were talking about what's been marked as Rodden Exhibit 10. This is the Excel spreadsheet that corresponds to Figure 8 in your report, correct? A. Yes. Q. And the third column on this spreadsheet has
2 3 4 5 6 7 8	your report. This presents your ecological inference estimates for black and white support for each candidate in elections going back to the 2000 election, correct? A. Yes. Q. Now, I want to be clear as what's represented here. When you say white support for a candidate or white vote share for a candidate in Figure 8, you're referring to white voters not non-black voters, correct? We	2 3 4 5 6 7 8	lunch recess was taken from 12:38 to 1:45 P.M.) Q. Dr. Rodden, before the lunch break, we were talking about what's been marked as Rodden Exhibit 10. This is the Excel spreadsheet that corresponds to Figure 8 in your report, correct? A. Yes. Q. And the third column on this spreadsheet has the point estimates in numerical terms for black support
2 3 4 5 6 7 8 9 10	your report. This presents your ecological inference estimates for black and white support for each candidate in elections going back to the 2000 election, correct? A. Yes. Q. Now, I want to be clear as what's represented here. When you say white support for a candidate or white vote share for a candidate in Figure 8, you're referring to white voters not non-black voters, correct? We established there was this category of other? Dr. Rodden,	2 3 4 5 6 7 8	lunch recess was taken from 12:38 to 1:45 P.M.) Q. Dr. Rodden, before the lunch break, we were talking about what's been marked as Rodden Exhibit 10. This is the Excel spreadsheet that corresponds to Figure 8 in your report, correct? A. Yes. Q. And the third column on this spreadsheet has the point estimates in numerical terms for black support for each candidate in each election in the
2 3 4 5 6 7 8 9	your report. This presents your ecological inference estimates for black and white support for each candidate in elections going back to the 2000 election, correct? A. Yes. Q. Now, I want to be clear as what's represented here. When you say white support for a candidate or white vote share for a candidate in Figure 8, you're referring to white voters not non-black voters, correct? We established there was this category of other? Dr. Rodden, I'm trying to understand if other is included here.	2 3 4 5 6 7 8 9	lunch recess was taken from 12:38 to 1:45 P.M.) Q. Dr. Rodden, before the lunch break, we were talking about what's been marked as Rodden Exhibit 10. This is the Excel spreadsheet that corresponds to Figure 8 in your report, correct? A. Yes. Q. And the third column on this spreadsheet has the point estimates in numerical terms for black support for each candidate in each election in the Ferguson-Florissant school district mentioned in Figure 8,
2 3 4 5 6 7 8 9 10	your report. This presents your ecological inference estimates for black and white support for each candidate in elections going back to the 2000 election, correct? A. Yes. Q. Now, I want to be clear as what's represented here. When you say white support for a candidate or white vote share for a candidate in Figure 8, you're referring to white voters not non-black voters, correct? We established there was this category of other? Dr. Rodden, I'm trying to understand if other is included here. A. And I'm trying to I'm trying to remember	2 3 4 5 6 7 8 9 10	lunch recess was taken from 12:38 to 1:45 P.M.) Q. Dr. Rodden, before the lunch break, we were talking about what's been marked as Rodden Exhibit 10. This is the Excel spreadsheet that corresponds to Figure 8 in your report, correct? A. Yes. Q. And the third column on this spreadsheet has the point estimates in numerical terms for black support for each candidate in each election in the Ferguson-Florissant school district mentioned in Figure 8, correct?
2 3 4 5 6 7 8 9 10 11	your report. This presents your ecological inference estimates for black and white support for each candidate in elections going back to the 2000 election, correct? A. Yes. Q. Now, I want to be clear as what's represented here. When you say white support for a candidate or white vote share for a candidate in Figure 8, you're referring to white voters not non-black voters, correct? We established there was this category of other? Dr. Rodden, I'm trying to understand if other is included here. A. And I'm trying to I'm trying to remember how exactly I dealt with this in the in the in this	2 3 4 5 6 7 8 9 10 11	lunch recess was taken from 12:38 to 1:45 P.M.) Q. Dr. Rodden, before the lunch break, we were talking about what's been marked as Rodden Exhibit 10. This is the Excel spreadsheet that corresponds to Figure 8 in your report, correct? A. Yes. Q. And the third column on this spreadsheet has the point estimates in numerical terms for black support for each candidate in each election in the Ferguson-Florissant school district mentioned in Figure 8, correct? A. Yes.
2 3 4 5 6 7 8 9 10 11 12 13	your report. This presents your ecological inference estimates for black and white support for each candidate in elections going back to the 2000 election, correct? A. Yes. Q. Now, I want to be clear as what's represented here. When you say white support for a candidate or white vote share for a candidate in Figure 8, you're referring to white voters not non-black voters, correct? We established there was this category of other? Dr. Rodden, I'm trying to understand if other is included here. A. And I'm trying to I'm trying to remember how exactly I dealt with this in the in the in this version of the report, so I need to	2 3 4 5 6 7 8 9 10 11 12 13	lunch recess was taken from 12:38 to 1:45 P.M.) Q. Dr. Rodden, before the lunch break, we were talking about what's been marked as Rodden Exhibit 10. This is the Excel spreadsheet that corresponds to Figure 8 in your report, correct? A. Yes. Q. And the third column on this spreadsheet has the point estimates in numerical terms for black support for each candidate in each election in the Ferguson-Florissant school district mentioned in Figure 8, correct? A. Yes. Q. And the fourth column has the point estimates
2 3 4 5 6 7 8 9 10 11 12 13	your report. This presents your ecological inference estimates for black and white support for each candidate in elections going back to the 2000 election, correct? A. Yes. Q. Now, I want to be clear as what's represented here. When you say white support for a candidate or white vote share for a candidate in Figure 8, you're referring to white voters not non-black voters, correct? We established there was this category of other? Dr. Rodden, I'm trying to understand if other is included here. A. And I'm trying to I'm trying to remember how exactly I dealt with this in the in the in this version of the report, so I need to Q. Sure. Take your time.	2 3 4 5 6 7 8 9 10 11 12 13	lunch recess was taken from 12:38 to 1:45 P.M.) Q. Dr. Rodden, before the lunch break, we were talking about what's been marked as Rodden Exhibit 10. This is the Excel spreadsheet that corresponds to Figure 8 in your report, correct? A. Yes. Q. And the third column on this spreadsheet has the point estimates in numerical terms for black support for each candidate in each election in the Ferguson-Florissant school district mentioned in Figure 8, correct? A. Yes. Q. And the fourth column has the point estimates for white support for each candidate in each election in
2 3 4 5 6 7 8 9 10 11 12 13 14 15	your report. This presents your ecological inference estimates for black and white support for each candidate in elections going back to the 2000 election, correct? A. Yes. Q. Now, I want to be clear as what's represented here. When you say white support for a candidate or white vote share for a candidate in Figure 8, you're referring to white voters not non-black voters, correct? We established there was this category of other? Dr. Rodden, I'm trying to understand if other is included here. A. And I'm trying to I'm trying to remember how exactly I dealt with this in the in the in this version of the report, so I need to Q. Sure. Take your time. A take a moment. In the assembly of this	2 3 4 5 6 7 8 9 10 11 12 13 14	lunch recess was taken from 12:38 to 1:45 P.M.) Q. Dr. Rodden, before the lunch break, we were talking about what's been marked as Rodden Exhibit 10. This is the Excel spreadsheet that corresponds to Figure 8 in your report, correct? A. Yes. Q. And the third column on this spreadsheet has the point estimates in numerical terms for black support for each candidate in each election in the Ferguson-Florissant school district mentioned in Figure 8, correct? A. Yes. Q. And the fourth column has the point estimates for white support for each candidate in each election in the Ferguson-Florissant school district, correct?
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	your report. This presents your ecological inference estimates for black and white support for each candidate in elections going back to the 2000 election, correct? A. Yes. Q. Now, I want to be clear as what's represented here. When you say white support for a candidate or white vote share for a candidate in Figure 8, you're referring to white voters not non-black voters, correct? We established there was this category of other? Dr. Rodden, I'm trying to understand if other is included here. A. And I'm trying to I'm trying to remember how exactly I dealt with this in the in the in this version of the report, so I need to Q. Sure. Take your time. A take a moment. In the assembly of this data set, as I hopefully have described, I used block	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	lunch recess was taken from 12:38 to 1:45 P.M.) Q. Dr. Rodden, before the lunch break, we were talking about what's been marked as Rodden Exhibit 10. This is the Excel spreadsheet that corresponds to Figure 8 in your report, correct? A. Yes. Q. And the third column on this spreadsheet has the point estimates in numerical terms for black support for each candidate in each election in the Ferguson-Florissant school district mentioned in Figure 8, correct? A. Yes. Q. And the fourth column has the point estimates for white support for each candidate in each election in the Ferguson-Florissant school district, correct? A. Yes.
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	your report. This presents your ecological inference estimates for black and white support for each candidate in elections going back to the 2000 election, correct? A. Yes. Q. Now, I want to be clear as what's represented here. When you say white support for a candidate or white vote share for a candidate in Figure 8, you're referring to white voters not non-black voters, correct? We established there was this category of other? Dr. Rodden, I'm trying to understand if other is included here. A. And I'm trying to I'm trying to remember how exactly I dealt with this in the in the in this version of the report, so I need to Q. Sure. Take your time. A take a moment. In the assembly of this data set, as I hopefully have described, I used block level data, and those data had information for whites and	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	lunch recess was taken from 12:38 to 1:45 P.M.) Q. Dr. Rodden, before the lunch break, we were talking about what's been marked as Rodden Exhibit 10. This is the Excel spreadsheet that corresponds to Figure 8 in your report, correct? A. Yes. Q. And the third column on this spreadsheet has the point estimates in numerical terms for black support for each candidate in each election in the Ferguson-Florissant school district mentioned in Figure 8, correct? A. Yes. Q. And the fourth column has the point estimates for white support for each candidate in each election in the Ferguson-Florissant school district, correct? A. Yes. Q. Okay. And what's been marked as Rodden
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	your report. This presents your ecological inference estimates for black and white support for each candidate in elections going back to the 2000 election, correct? A. Yes. Q. Now, I want to be clear as what's represented here. When you say white support for a candidate or white vote share for a candidate in Figure 8, you're referring to white voters not non-black voters, correct? We established there was this category of other? Dr. Rodden, I'm trying to understand if other is included here. A. And I'm trying to I'm trying to remember how exactly I dealt with this in the in the in this version of the report, so I need to Q. Sure. Take your time. A take a moment. In the assembly of this data set, as I hopefully have described, I used block level data, and those data had information for whites and for single race whites and single race	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	lunch recess was taken from 12:38 to 1:45 P.M.) Q. Dr. Rodden, before the lunch break, we were talking about what's been marked as Rodden Exhibit 10. This is the Excel spreadsheet that corresponds to Figure 8 in your report, correct? A. Yes. Q. And the third column on this spreadsheet has the point estimates in numerical terms for black support for each candidate in each election in the Ferguson-Florissant school district mentioned in Figure 8, correct? A. Yes. Q. And the fourth column has the point estimates for white support for each candidate in each election in the Ferguson-Florissant school district, correct? A. Yes. Q. Okay. And what's been marked as Rodden Exhibit 11 has been is the same spreadsheet, but
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	your report. This presents your ecological inference estimates for black and white support for each candidate in elections going back to the 2000 election, correct? A. Yes. Q. Now, I want to be clear as what's represented here. When you say white support for a candidate or white vote share for a candidate in Figure 8, you're referring to white voters not non-black voters, correct? We established there was this category of other? Dr. Rodden, I'm trying to understand if other is included here. A. And I'm trying to I'm trying to remember how exactly I dealt with this in the in the in this version of the report, so I need to Q. Sure. Take your time. A take a moment. In the assembly of this data set, as I hopefully have described, I used block level data, and those data had information for whites and for single race whites and single race African-Americans. And I believe your question is whether	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	lunch recess was taken from 12:38 to 1:45 P.M.) Q. Dr. Rodden, before the lunch break, we were talking about what's been marked as Rodden Exhibit 10. This is the Excel spreadsheet that corresponds to Figure 8 in your report, correct? A. Yes. Q. And the third column on this spreadsheet has the point estimates in numerical terms for black support for each candidate in each election in the Ferguson-Florissant school district mentioned in Figure 8, correct? A. Yes. Q. And the fourth column has the point estimates for white support for each candidate in each election in the Ferguson-Florissant school district, correct? A. Yes. Q. Okay. And what's been marked as Rodden Exhibit 11 has been is the same spreadsheet, but reformatted to be a little easier to read, but it has the
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	your report. This presents your ecological inference estimates for black and white support for each candidate in elections going back to the 2000 election, correct? A. Yes. Q. Now, I want to be clear as what's represented here. When you say white support for a candidate or white vote share for a candidate in Figure 8, you're referring to white voters not non-black voters, correct? We established there was this category of other? Dr. Rodden, I'm trying to understand if other is included here. A. And I'm trying to I'm trying to remember how exactly I dealt with this in the in the in this version of the report, so I need to Q. Sure. Take your time. A take a moment. In the assembly of this data set, as I hopefully have described, I used block level data, and those data had information for whites and for single race whites and single race African-Americans. And I believe your question is whether the whether the what was done with this category in	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	lunch recess was taken from 12:38 to 1:45 P.M.) Q. Dr. Rodden, before the lunch break, we were talking about what's been marked as Rodden Exhibit 10. This is the Excel spreadsheet that corresponds to Figure 8 in your report, correct? A. Yes. Q. And the third column on this spreadsheet has the point estimates in numerical terms for black support for each candidate in each election in the Ferguson-Florissant school district mentioned in Figure 8, correct? A. Yes. Q. And the fourth column has the point estimates for white support for each candidate in each election in the Ferguson-Florissant school district, correct? A. Yes. Q. Okay. And what's been marked as Rodden Exhibit 11 has been is the same spreadsheet, but reformatted to be a little easier to read, but it has the same data.
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	your report. This presents your ecological inference estimates for black and white support for each candidate in elections going back to the 2000 election, correct? A. Yes. Q. Now, I want to be clear as what's represented here. When you say white support for a candidate or white vote share for a candidate in Figure 8, you're referring to white voters not non-black voters, correct? We established there was this category of other? Dr. Rodden, I'm trying to understand if other is included here. A. And I'm trying to I'm trying to remember how exactly I dealt with this in the in the in this version of the report, so I need to Q. Sure. Take your time. A take a moment. In the assembly of this data set, as I hopefully have described, I used block level data, and those data had information for whites and for single race whites and single race African-Americans. And I believe your question is whether the whether the what was done with this category in the decennial census data that doesn't fit into one of	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	lunch recess was taken from 12:38 to 1:45 P.M.) Q. Dr. Rodden, before the lunch break, we were talking about what's been marked as Rodden Exhibit 10. This is the Excel spreadsheet that corresponds to Figure 8 in your report, correct? A. Yes. Q. And the third column on this spreadsheet has the point estimates in numerical terms for black support for each candidate in each election in the Ferguson-Florissant school district mentioned in Figure 8, correct? A. Yes. Q. And the fourth column has the point estimates for white support for each candidate in each election in the Ferguson-Florissant school district, correct? A. Yes. Q. Okay. And what's been marked as Rodden Exhibit 11 has been is the same spreadsheet, but reformatted to be a little easier to read, but it has the same data. A. Thank you. That's good.
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	your report. This presents your ecological inference estimates for black and white support for each candidate in elections going back to the 2000 election, correct? A. Yes. Q. Now, I want to be clear as what's represented here. When you say white support for a candidate or white vote share for a candidate in Figure 8, you're referring to white voters not non-black voters, correct? We established there was this category of other? Dr. Rodden, I'm trying to understand if other is included here. A. And I'm trying to I'm trying to remember how exactly I dealt with this in the in the in this version of the report, so I need to Q. Sure. Take your time. A take a moment. In the assembly of this data set, as I hopefully have described, I used block level data, and those data had information for whites and for single race whites and single race African-Americans. And I believe your question is whether the whether the what was done with this category in the decennial census data that doesn't fit into one of those categories, and my recollection is that it was not	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	lunch recess was taken from 12:38 to 1:45 P.M.) Q. Dr. Rodden, before the lunch break, we were talking about what's been marked as Rodden Exhibit 10. This is the Excel spreadsheet that corresponds to Figure 8 in your report, correct? A. Yes. Q. And the third column on this spreadsheet has the point estimates in numerical terms for black support for each candidate in each election in the Ferguson-Florissant school district mentioned in Figure 8, correct? A. Yes. Q. And the fourth column has the point estimates for white support for each candidate in each election in the Ferguson-Florissant school district, correct? A. Yes. Q. Okay. And what's been marked as Rodden Exhibit 11 has been is the same spreadsheet, but reformatted to be a little easier to read, but it has the same data. A. Thank you. That's good. Q. Does that look correct to you?

	Page 120	Page 121
	Page 129	Page 131
1	feel free to refer to either of these spreadsheets or	1 A. Yes.
2	Figure 8 in your report, whatever is easiest for you. Is	2 Q. Okay. And in these scenarios that we've just
3	that okay?	3 discussed well, let's just use the two-seat example
4	A. Yes. I'm just making sure I understand	4 where all voters use all their votes, and let's say a
5	everything here.	5 candidate gets 50 percent of the votes. That would mean
6	Q. Sure. Just let me know when you're ready to	6 that 100 percent of voters had cast a vote for that
7	proceed.	7 candidate, correct?
8	A. So these colors have been included to separate	8 A. The stipulations again in this hypothetical,
9	different years?	9 just make sure I understand
10	Q. Yes.	10 Q. Oh, yeah. Sure. Two-seat election where
11	A. Okay. Yes.	11 every voter uses all of their votes, so there's no what I
12	Q. Now, correct me if I'm wrong, but in a	12 think you would call single-shot voting.
13	two-seat election in the Ferguson-Florissant school	13 A. Uh-huh.
14	district, every voter has up to two votes, correct?	14 Q. Right? If a candidate receives 50 percent of
15	A. Yes.	15 the votes cast, that would mean that 100 percent of voters
16	Q. And in a three-seat election, every voter has	16 had voted for that candidate, correct?
17	up to three votes?	17 A. Yes.
18	A. Yes.	18 Q. And so if we assume and again, this is a
19	Q. And voters can only vote for one candidate at	19 stipulation we assume there's no single-shot voting,
20	a time, right, Dr. Rodden? It's not like you can give	20 one kind of rule of thumb we could apply, when we look at
21	both of your votes to a single candidate, correct?	21 the percentage of votes received by a candidate in a
22	A. That's correct.	22 two-seat election, we could basically double that number
23	Q. Okay. And you would agree that in a	23 to get a sense for how many voters supported that
24	multimember election like this, under the rules that we	24 candidate, again assuming no single-shot voting, right?
25	have in the Ferguson-Florissant school district, there's a	25 A. If I was discussing a political jurisdiction
	2 400	7 10
	Page 130	Page 132
1	Page 130 difference between the percentage of votes cast for a	1 in which single-shot voting was not allowed, then that
1 2	_	
	difference between the percentage of votes cast for a	1 in which single-shot voting was not allowed, then that
2	difference between the percentage of votes cast for a candidate and the percentage of voters who supported a	 in which single-shot voting was not allowed, then that would be something that would make sense.
2	difference between the percentage of votes cast for a candidate and the percentage of voters who supported a candidate, correct?	 in which single-shot voting was not allowed, then that would be something that would make sense. Q. And in a three-seat election, you could just
2 3 4	difference between the percentage of votes cast for a candidate and the percentage of voters who supported a candidate, correct? A. That is correct. We're looking at the	1 in which single-shot voting was not allowed, then that 2 would be something that would make sense. 3 Q. And in a three-seat election, you could just 4 triple the percentage of votes that a vote that a
2 3 4 5	difference between the percentage of votes cast for a candidate and the percentage of voters who supported a candidate, correct? A. That is correct. We're looking at the percentage of votes cast here.	1 in which single-shot voting was not allowed, then that 2 would be something that would make sense. 3 Q. And in a three-seat election, you could just 4 triple the percentage of votes that a vote that a 5 candidate got in order to get a ball-park of how many
2 3 4 5 6	difference between the percentage of votes cast for a candidate and the percentage of voters who supported a candidate, correct? A. That is correct. We're looking at the percentage of votes cast here. Q. Right. If you were to assume and I know	in which single-shot voting was not allowed, then that would be something that would make sense. Q. And in a three-seat election, you could just triple the percentage of votes that a vote that a candidate got in order to get a ball-park of how many voters, what percentage of voters actually supported that
2 3 4 5 6 7	difference between the percentage of votes cast for a candidate and the percentage of voters who supported a candidate, correct? A. That is correct. We're looking at the percentage of votes cast here. Q. Right. If you were to assume and I know this isn't always the case, but if you were to assume that	in which single-shot voting was not allowed, then that would be something that would make sense. Q. And in a three-seat election, you could just triple the percentage of votes that a vote that a candidate got in order to get a ball-park of how many voters, what percentage of voters actually supported that candidate, again assuming no single-shot voting?
2 3 4 5 6 7 8	difference between the percentage of votes cast for a candidate and the percentage of voters who supported a candidate, correct? A. That is correct. We're looking at the percentage of votes cast here. Q. Right. If you were to assume and I know this isn't always the case, but if you were to assume that in a two-seat election every voter used both of their	in which single-shot voting was not allowed, then that would be something that would make sense. Q. And in a three-seat election, you could just triple the percentage of votes that a vote that a candidate got in order to get a ball-park of how many voters, what percentage of voters actually supported that candidate, again assuming no single-shot voting? A. That would also assume no spoiled ballots and
2 3 4 5 6 7 8	difference between the percentage of votes cast for a candidate and the percentage of voters who supported a candidate, correct? A. That is correct. We're looking at the percentage of votes cast here. Q. Right. If you were to assume and I know this isn't always the case, but if you were to assume that in a two-seat election every voter used both of their votes, the most votes that a candidate could receive, a	in which single-shot voting was not allowed, then that would be something that would make sense. Q. And in a three-seat election, you could just triple the percentage of votes that a vote that a candidate got in order to get a ball-park of how many voters, what percentage of voters actually supported that candidate, again assuming no single-shot voting? A. That would also assume no spoiled ballots and so forth, but yes.
2 3 4 5 6 7 8 9	difference between the percentage of votes cast for a candidate and the percentage of voters who supported a candidate, correct? A. That is correct. We're looking at the percentage of votes cast here. Q. Right. If you were to assume and I know this isn't always the case, but if you were to assume that in a two-seat election every voter used both of their votes, the most votes that a candidate could receive, a single candidate could receive, would be 50 percent of the	in which single-shot voting was not allowed, then that would be something that would make sense. Q. And in a three-seat election, you could just triple the percentage of votes that a vote that a candidate got in order to get a ball-park of how many voters, what percentage of voters actually supported that candidate, again assuming no single-shot voting? A. That would also assume no spoiled ballots and so forth, but yes. Q. Okay. I want to look at and try to keep
2 3 4 5 6 7 8 9 10	difference between the percentage of votes cast for a candidate and the percentage of voters who supported a candidate, correct? A. That is correct. We're looking at the percentage of votes cast here. Q. Right. If you were to assume and I know this isn't always the case, but if you were to assume that in a two-seat election every voter used both of their votes, the most votes that a candidate could receive, a single candidate could receive, would be 50 percent of the total votes, correct?	in which single-shot voting was not allowed, then that would be something that would make sense. Q. And in a three-seat election, you could just triple the percentage of votes that a vote that a candidate got in order to get a ball-park of how many voters, what percentage of voters actually supported that candidate, again assuming no single-shot voting? A. That would also assume no spoiled ballots and so forth, but yes. Q. Okay. I want to look at and try to keep those spreadsheets kind of nearby, because we may refer to
2 3 4 5 6 7 8 9 10 11	difference between the percentage of votes cast for a candidate and the percentage of voters who supported a candidate, correct? A. That is correct. We're looking at the percentage of votes cast here. Q. Right. If you were to assume and I know this isn't always the case, but if you were to assume that in a two-seat election every voter used both of their votes, the most votes that a candidate could receive, a single candidate could receive, would be 50 percent of the total votes, correct? A. From a particular racial group you're	in which single-shot voting was not allowed, then that would be something that would make sense. Q. And in a three-seat election, you could just triple the percentage of votes that a vote that a candidate got in order to get a ball-park of how many voters, what percentage of voters actually supported that candidate, again assuming no single-shot voting? A. That would also assume no spoiled ballots and so forth, but yes. Q. Okay. I want to look at and try to keep those spreadsheets kind of nearby, because we may refer to them from time to time, but I want to look at the 2000
2 3 4 5 6 7 8 9 10 11 12 13	difference between the percentage of votes cast for a candidate and the percentage of voters who supported a candidate, correct? A. That is correct. We're looking at the percentage of votes cast here. Q. Right. If you were to assume and I know this isn't always the case, but if you were to assume that in a two-seat election every voter used both of their votes, the most votes that a candidate could receive, a single candidate could receive, would be 50 percent of the total votes, correct? A. From a particular racial group you're referring to right now, or	in which single-shot voting was not allowed, then that would be something that would make sense. Q. And in a three-seat election, you could just triple the percentage of votes that a vote that a candidate got in order to get a ball-park of how many voters, what percentage of voters actually supported that candidate, again assuming no single-shot voting? A. That would also assume no spoiled ballots and so forth, but yes. Q. Okay. I want to look at and try to keep those spreadsheets kind of nearby, because we may refer to them from time to time, but I want to look at the 2000 your discussion of the 2000 election on Page 33 of your
2 3 4 5 6 7 8 9 10 11 12 13	difference between the percentage of votes cast for a candidate and the percentage of voters who supported a candidate, correct? A. That is correct. We're looking at the percentage of votes cast here. Q. Right. If you were to assume and I know this isn't always the case, but if you were to assume that in a two-seat election every voter used both of their votes, the most votes that a candidate could receive, a single candidate could receive, would be 50 percent of the total votes, correct? A. From a particular racial group you're referring to right now, or Q. From a particular racial group or from voters	in which single-shot voting was not allowed, then that would be something that would make sense. Q. And in a three-seat election, you could just triple the percentage of votes that a vote that a candidate got in order to get a ball-park of how many voters, what percentage of voters actually supported that candidate, again assuming no single-shot voting? A. That would also assume no spoiled ballots and so forth, but yes. Q. Okay. I want to look at and try to keep those spreadsheets kind of nearby, because we may refer to them from time to time, but I want to look at the 2000 your discussion of the 2000 election on Page 33 of your report which is at Paragraph 68. Just let me know when
2 3 4 5 6 7 8 9 10 11 12 13 14	difference between the percentage of votes cast for a candidate and the percentage of voters who supported a candidate, correct? A. That is correct. We're looking at the percentage of votes cast here. Q. Right. If you were to assume and I know this isn't always the case, but if you were to assume that in a two-seat election every voter used both of their votes, the most votes that a candidate could receive, a single candidate could receive, would be 50 percent of the total votes, correct? A. From a particular racial group you're referring to right now, or Q. From a particular racial group or from voters as a whole.	in which single-shot voting was not allowed, then that would be something that would make sense. Q. And in a three-seat election, you could just triple the percentage of votes that a vote that a candidate got in order to get a ball-park of how many voters, what percentage of voters actually supported that candidate, again assuming no single-shot voting? A. That would also assume no spoiled ballots and so forth, but yes. Q. Okay. I want to look at and try to keep those spreadsheets kind of nearby, because we may refer to them from time to time, but I want to look at the 2000 your discussion of the 2000 election on Page 33 of your report which is at Paragraph 68. Just let me know when you get there.
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	difference between the percentage of votes cast for a candidate and the percentage of voters who supported a candidate, correct? A. That is correct. We're looking at the percentage of votes cast here. Q. Right. If you were to assume and I know this isn't always the case, but if you were to assume that in a two-seat election every voter used both of their votes, the most votes that a candidate could receive, a single candidate could receive, would be 50 percent of the total votes, correct? A. From a particular racial group you're referring to right now, or Q. From a particular racial group or from voters as a whole. A. That the most votes a candidate could receive	in which single-shot voting was not allowed, then that would be something that would make sense. Q. And in a three-seat election, you could just triple the percentage of votes that a vote that a candidate got in order to get a ball-park of how many voters, what percentage of voters actually supported that candidate, again assuming no single-shot voting? A. That would also assume no spoiled ballots and so forth, but yes. Q. Okay. I want to look at and try to keep those spreadsheets kind of nearby, because we may refer to them from time to time, but I want to look at the 2000 your discussion of the 2000 election on Page 33 of your report which is at Paragraph 68. Just let me know when you get there. A. I am there.
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	difference between the percentage of votes cast for a candidate and the percentage of voters who supported a candidate, correct? A. That is correct. We're looking at the percentage of votes cast here. Q. Right. If you were to assume and I know this isn't always the case, but if you were to assume that in a two-seat election every voter used both of their votes, the most votes that a candidate could receive, a single candidate could receive, would be 50 percent of the total votes, correct? A. From a particular racial group you're referring to right now, or Q. From a particular racial group or from voters as a whole. A. That the most votes a candidate could receive as a share of the votes cast is 50 percent?	in which single-shot voting was not allowed, then that would be something that would make sense. Q. And in a three-seat election, you could just triple the percentage of votes that a vote that a candidate got in order to get a ball-park of how many voters, what percentage of voters actually supported that candidate, again assuming no single-shot voting? A. That would also assume no spoiled ballots and so forth, but yes. Q. Okay. I want to look at and try to keep those spreadsheets kind of nearby, because we may refer to them from time to time, but I want to look at the 2000 your discussion of the 2000 election on Page 33 of your report which is at Paragraph 68. Just let me know when you get there. A. I am there. Q. Okay. In this paragraph you identify two
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	difference between the percentage of votes cast for a candidate and the percentage of voters who supported a candidate, correct? A. That is correct. We're looking at the percentage of votes cast here. Q. Right. If you were to assume and I know this isn't always the case, but if you were to assume that in a two-seat election every voter used both of their votes, the most votes that a candidate could receive, a single candidate could receive, would be 50 percent of the total votes, correct? A. From a particular racial group you're referring to right now, or Q. From a particular racial group or from voters as a whole. A. That the most votes a candidate could receive as a share of the votes cast is 50 percent? Q. Assuming that everyone uses all of their	in which single-shot voting was not allowed, then that would be something that would make sense. Q. And in a three-seat election, you could just triple the percentage of votes that a vote that a candidate got in order to get a ball-park of how many voters, what percentage of voters actually supported that candidate, again assuming no single-shot voting? A. That would also assume no spoiled ballots and so forth, but yes. Q. Okay. I want to look at and try to keep those spreadsheets kind of nearby, because we may refer to them from time to time, but I want to look at the 2000 your discussion of the 2000 election on Page 33 of your report which is at Paragraph 68. Just let me know when you get there. A. I am there. Q. Okay. In this paragraph you identify two candidates as minority-preferred candidates, Gwen Thomas
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	difference between the percentage of votes cast for a candidate and the percentage of voters who supported a candidate, correct? A. That is correct. We're looking at the percentage of votes cast here. Q. Right. If you were to assume and I know this isn't always the case, but if you were to assume that in a two-seat election every voter used both of their votes, the most votes that a candidate could receive, a single candidate could receive, would be 50 percent of the total votes, correct? A. From a particular racial group you're referring to right now, or Q. From a particular racial group or from voters as a whole. A. That the most votes a candidate could receive as a share of the votes cast is 50 percent? Q. Assuming that everyone uses all of their votes.	in which single-shot voting was not allowed, then that would be something that would make sense. Q. And in a three-seat election, you could just triple the percentage of votes that a vote that a candidate got in order to get a ball-park of how many voters, what percentage of voters actually supported that candidate, again assuming no single-shot voting? A. That would also assume no spoiled ballots and so forth, but yes. Q. Okay. I want to look at and try to keep those spreadsheets kind of nearby, because we may refer to them from time to time, but I want to look at the 2000 your discussion of the 2000 election on Page 33 of your report which is at Paragraph 68. Just let me know when you get there. A. I am there. Q. Okay. In this paragraph you identify two candidates as minority-preferred candidates, Gwen Thomas and Michael Hirsch; is that correct?
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	difference between the percentage of votes cast for a candidate and the percentage of voters who supported a candidate, correct? A. That is correct. We're looking at the percentage of votes cast here. Q. Right. If you were to assume and I know this isn't always the case, but if you were to assume that in a two-seat election every voter used both of their votes, the most votes that a candidate could receive, a single candidate could receive, would be 50 percent of the total votes, correct? A. From a particular racial group you're referring to right now, or Q. From a particular racial group or from voters as a whole. A. That the most votes a candidate could receive as a share of the votes cast is 50 percent? Q. Assuming that everyone uses all of their votes. A. Oh, right. Assuming everyone uses all their	in which single-shot voting was not allowed, then that would be something that would make sense. Q. And in a three-seat election, you could just triple the percentage of votes that a vote that a candidate got in order to get a ball-park of how many voters, what percentage of voters actually supported that candidate, again assuming no single-shot voting? A. That would also assume no spoiled ballots and so forth, but yes. Q. Okay. I want to look at and try to keep those spreadsheets kind of nearby, because we may refer to them from time to time, but I want to look at the 2000 your discussion of the 2000 election on Page 33 of your report which is at Paragraph 68. Just let me know when you get there. A. I am there. Q. Okay. In this paragraph you identify two candidates as minority-preferred candidates, Gwen Thomas and Michael Hirsch; is that correct? A. Yes.
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	difference between the percentage of votes cast for a candidate and the percentage of voters who supported a candidate, correct? A. That is correct. We're looking at the percentage of votes cast here. Q. Right. If you were to assume and I know this isn't always the case, but if you were to assume that in a two-seat election every voter used both of their votes, the most votes that a candidate could receive, a single candidate could receive, would be 50 percent of the total votes, correct? A. From a particular racial group you're referring to right now, or Q. From a particular racial group or from voters as a whole. A. That the most votes a candidate could receive as a share of the votes cast is 50 percent? Q. Assuming that everyone uses all of their votes. A. Oh, right. Assuming everyone uses all their votes, then that is correct.	in which single-shot voting was not allowed, then that would be something that would make sense. Q. And in a three-seat election, you could just triple the percentage of votes that a vote that a candidate got in order to get a ball-park of how many voters, what percentage of voters actually supported that candidate, again assuming no single-shot voting? A. That would also assume no spoiled ballots and so forth, but yes. Q. Okay. I want to look at and try to keep those spreadsheets kind of nearby, because we may refer to them from time to time, but I want to look at the 2000 your discussion of the 2000 election on Page 33 of your report which is at Paragraph 68. Just let me know when you get there. A. I am there. Q. Okay. In this paragraph you identify two candidates as minority-preferred candidates, Gwen Thomas and Michael Hirsch; is that correct? A. Yes. Q. And the reason you identify them as
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	difference between the percentage of votes cast for a candidate and the percentage of voters who supported a candidate, correct? A. That is correct. We're looking at the percentage of votes cast here. Q. Right. If you were to assume and I know this isn't always the case, but if you were to assume that in a two-seat election every voter used both of their votes, the most votes that a candidate could receive, a single candidate could receive, would be 50 percent of the total votes, correct? A. From a particular racial group you're referring to right now, or Q. From a particular racial group or from voters as a whole. A. That the most votes a candidate could receive as a share of the votes cast is 50 percent? Q. Assuming that everyone uses all of their votes. A. Oh, right. Assuming everyone uses all their votes, then that is correct. Q. And in a three-seat election, again assuming	in which single-shot voting was not allowed, then that would be something that would make sense. Q. And in a three-seat election, you could just triple the percentage of votes that a vote that a candidate got in order to get a ball-park of how many voters, what percentage of voters actually supported that candidate, again assuming no single-shot voting? A. That would also assume no spoiled ballots and so forth, but yes. Q. Okay. I want to look at and try to keep those spreadsheets kind of nearby, because we may refer to them from time to time, but I want to look at the 2000 your discussion of the 2000 election on Page 33 of your report which is at Paragraph 68. Just let me know when you get there. A. I am there. Q. Okay. In this paragraph you identify two candidates as minority-preferred candidates, Gwen Thomas and Michael Hirsch; is that correct? A. Yes. Q. And the reason you identify them as minority-preferred in the text of your report in Paragraph
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	difference between the percentage of votes cast for a candidate and the percentage of voters who supported a candidate, correct? A. That is correct. We're looking at the percentage of votes cast here. Q. Right. If you were to assume and I know this isn't always the case, but if you were to assume that in a two-seat election every voter used both of their votes, the most votes that a candidate could receive, a single candidate could receive, would be 50 percent of the total votes, correct? A. From a particular racial group you're referring to right now, or Q. From a particular racial group or from voters as a whole. A. That the most votes a candidate could receive as a share of the votes cast is 50 percent? Q. Assuming that everyone uses all of their votes. A. Oh, right. Assuming everyone uses all their votes, then that is correct. Q. And in a three-seat election, again assuming everyone uses all of their votes that a	in which single-shot voting was not allowed, then that would be something that would make sense. Q. And in a three-seat election, you could just triple the percentage of votes that a vote that a candidate got in order to get a ball-park of how many voters, what percentage of voters actually supported that candidate, again assuming no single-shot voting? A. That would also assume no spoiled ballots and so forth, but yes. Q. Okay. I want to look at and try to keep those spreadsheets kind of nearby, because we may refer to them from time to time, but I want to look at the 2000 your discussion of the 2000 election on Page 33 of your report which is at Paragraph 68. Just let me know when you get there. A. I am there. Q. Okay. In this paragraph you identify two candidates as minority-preferred candidates, Gwen Thomas and Michael Hirsch; is that correct? A. Yes. Q. And the reason you identify them as minority-preferred in the text of your report in Paragraph 68 is because, if we look at your spreadsheet for the

Page 135 Page 133 A. That is correct. 1 A. Yes. 1 2 2 Q. And when you say minority-preferred candidates Q. And throughout this section of your report you 3 3 use the term minority-preferred, and generally speaking, in this sentence and for this number 14 out of 27, you are 4 am I right that when you use the term minority-preferred 4 referring to the candidates with the highest point 5 in this report, you're using it in the same way that you 5 estimates of black support in each election, right? use it to describe the results of the 2000 election as You're not using just the top vote-getter in each 6 6 7 7 election? those candidates with the highest point estimates for 8 black support in that election? 8 A. I'm sorry. In Paragraph 73 I state at the 9 9 A. I need to clarify that I speak differently in beginning that I am here applying the approach in which I 10 different parts of the report, but I'm clear, I believe, 10 only look at the top minority-preferred candidates, so the 11 about the -- about that fact. My approach to this is to 11 answer is no. 12 try to aid the Court in understanding a complex question 12 Q. Well, I mean you're not just looking at the 13 number one top minority-preferred candidate. If it's a 13 about how to think about minority-preferred candidates in 14 a multi-seat system. So in this passage of the text that 14 two-seat election, you take the two candidates with the 15 you're referring to of which -- of which Paragraph 68 is a 15 highest point estimates for black support, and in a 16 part, indeed I take the top two point estimates among 16 three-seat election you take the three candidates with the 17 African-Americans and refer to them as minority-preferred 17 highest point estimates for black support, correct? 18 candidates, which is, again, stipulating that I am not an 18 A. In Paragraph 73 that is incorrect. 19 expert in case law, but in the cases I have read, that has 19 Q. The second sentence here reads, "Let us ignore been the approach that's been used. the complexities of the overlapping confidence intervals 20 20 for second and third candidates in Figure 8 and simply 21 However, I realize that that approach has a 21 22 disadvantage, which is that in some cases, in some 22 count up wins and losses of the candidates ranked by the 23 23 instances, voting among minorities, or for that matter ecological inference estimates among the top N candidates 24 among whites, would be sufficiently incohesive that it is 24 for African-American voters when there are N seats." 25 -- that it may be within a small -- the third candidate, 25 A. I apologize. I only read the final sentence Page 134 Page 136 say, in a two-seat race might be rather close to the 1 and not the full paragraph. That is -- this is indeed the 1 2 second candidate. And so because of that, I also explore 2 approach in which I count up the top two. 3 in -- a little bit later in the report, a different 3 Q. Okay. 4 approach which says let's just think about the first 4 A. That is your first -- revise my initial 5 candidate and let's call those minority-preferred 5 answer. It is yes. candidates. And those are the two principled ways I could Q. So when you say that 14 out of 27 6 6 7 think of to characterize minority-preferred candidates, 7 minority-preferred candidates have won in contested 8 elections between 2000 and 2015, you're saying that the 8 and so in this section I am -- I am adopting that first 9 approach, but then I recognize some of the limitations of 9 candidates with the highest point estimates of black 10 that approach, which is the reason why I then move into a 10 support in those elections won 14 out of 27 times, and 11 discussion of an alternative approach. 11 again, two candidates for two-seat elections, three 12 Q. Okay. For now I want to stick with that first 12 candidates for three-seat elections, correct? 13 approach. 13 A. That is correct. 14 A. Okay. 14 Q. Okay. I want to run through your election 15 Q. Using the highest point estimates --15 results in your chart. You can either use your chart or 16 16 you can use Figure 8. You can use the spreadsheet, I 17 Q. -- of support for candidates to determine 17 mean, Rodden 11, or you can use Figure 8 in your report, whether or not the candidate is minority-preferred, but I and I want to look at the top-ranked candidates for both 18 18 19 want to talk about the other methods available later in 19 blacks and whites according to the point estimates in each 20 the deposition today. 20 election. Is that okay? 21 21 A. Sure. On Page 35 of your report, Paragraph 73, in 22 your last sentence I think you say that in contested 22 Q. I want to give you something that I want to 23 elections, minority-preferred candidates win 14 out of 27 23 mark as Rodden Exhibit 12. 24 seats. Is that an accurate representation of what you're 24 (Whereupon, Rodden Deposition Exhibit No. 12 25 asserting in that sentence? 25 was marked for identification.)

	Dog 127		Page 120
	Page 137		Page 139
1	MS. ORMSBY: Are these all the same?	1	your report, it looks like Garofalo was elected, but not
2	Q. Yes. So I want to use this chart to record	2	Butler. Is that right?
3	the candidates for the highest point estimates for black	3	A. Yes.
4	and white support and then total up the number of those	4	Q. Okay. Could we record the number.
5	candidates who were successful, okay?	5	A. (The witness complied.)
6	A. Okay.	6	Q. And the two candidates with the highest levels
7	Q. Great. So let's look at the 2000 election.	7	of white support in 2001 were Garofalo and Hogshead; is
8	Now, there were two seats in the 2000 election, correct?	8	that right?
9	A. Yes.	9	A. Yes.
10	Q. And am I correct that the two candidates with	10	Q. And could we record that both were successful?
11	the highest point estimates for black support are Thomas	11	A. (The witness complied.)
12	and Hirsch?	12	Q. And let's look at the 2002 election now.
13	A. Yes.	13	There were three seats up for election in this year,
14	Q. Could you record their names in the chart.	14	right?
15	A. (The witness complied.)	15	A. Yes.
16	Q. And am I correct that both of them were	16	Q. And according to your point estimates, the
17	elected?	17	candidates with the highest levels of black support were
18	A. I don't recall.	18	Graham, Butler and Clark; is that right?
19	Q. Why don't you look at Page 33, Paragraph 68	19	A. Yes.
20	from your report. Both were elected, right, Professor	20	Q. And Graham and Clark were elected that year,
21	Rodden?	21	right, but not Butler?
22	A. Thomas and Hirsch?	22	A. I believe that's correct.
23	Q. Yes.	23	Q. Okay. Could you record that number.
24	A. Okay, both elected, yes.	24	A. Two.
25	Q. Okay. Can you write the number two in the	25	Q. Two. And according to your spreadsheet, the
	Page 138		Page 140
1	next column to represent the two minority-preferred	1	candidates with the highest estimated levels of white
2	candidates defined the way that we've defined it as those	2	support were Fletcher, Knorr I'm pronouncing it Knorr,
3	with the highest point estimates for black support	3	it's spelled K-n-o-r-r and Clark, correct?
4	A. Uh-huh.	4	A. Yes.
5	Q were successful? And I believe, according	5	Q. And of those three, Fletcher and Clark were
6	to your chart, these same two candidates were the had	6	elected; is that right? You could look at Paragraph 66.
7	the highest point estimates for white support, just in the	7	A. That sounds yeah, I believe that's right,
8	reverse order, Hirsch first and then Thomas; is that	8	too. So two.
9	right?	9	Q. Okay. Great. Let's look at 2003. The
10	A. Yes.	10	candidates with the highest estimated levels sorry.
11	Q. Could you record that in the chart.	11	The candidates that you estimate had the highest levels of
12	A. (The witness complied.)	12	black support were Thomas and Knorr; is that right?
13	Q. And both were successful, so could you record	13	A. Yes.
14	that as well.	14	Q. And both were elected?
15	A. Yes.	15	A. Yes.
16	Q. Great. Let's look at the 2001 election.	16	Q. And the candidates that you estimate with the
17	There were two seats up in this election, correct?	17	highest levels of white support were Knorr and Lentz,
18	A. I believe so.	18	L-e-n-t-z, correct?
19	Q. And Butler and Garofalo were the candidates	19	A. Yes.
	with the highest estimates of black support, according to	20	Q. And of those two, Knorr was elected, but not
20		21	Lentz, correct?
20 21	you, correct?		
	you, correct? A. Yes.	22	A. Yes.
21			A. Yes.Q. In 2004 there were two seats, correct?
21 22	A. Yes.	22	

	Page 141		Page 143
1		1	candidates with the highest levels of black support, I
2	having the highest level of black support are Van and McClendon, correct?	2	believe, were Graham, Hawkins and Clark; is that right?
3	A. Yes.	3	A. Yes.
4	Q. And neither were successful, correct? I'm	4	Q. And if we look at Paragraph 61 of your
5	looking at Paragraph 64 in your report if you want to	5	report I'm sorry. If we look at Paragraph 59 of your
6	confirm that.	6	report, we see that zero of those three candidates with
7	A. Okay.	7	the highest that you estimate as having the highest
8	Q. That's a yes, neither were elected?	8	levels of black support were successful; is that correct?
9	A. Right. Yes.	9	A. That's right.
10	Q. In 2004 the two candidates with the highest	10	Q. In 2011 the candidates that you estimate as
11	estimated levels of white support were Garofalo and	11	having the highest levels of white support are Martinez,
12	Hogshead; is that right?	12	Morris, and I think I'm going to pronounce this correctly,
13	A. Yes.	13	but someone should tell me if I'm wrong, Chabot.
14	Q. And both were elected, correct?	14	MS. ORMSBY: Chabot.
15	A. Yes.	15	Q. Chabot, spelled C-h-a-b-o-t.
16	Q. The 2006 election, that's the next contested	16	MS. ORMSBY: Can I ask that you clarify which
17	election, and according to your estimates, the two	17	Morris, because there's two Morrises that run.
18	candidates with the highest levels of black support were	18	Q. I think this is P. Morris.
19	Thomas and Washington; is that right?	19	MS. ORMSBY: You're correct. Just want it to
20	A. Yes.	20	be clear.
21	Q. And if you look at Paragraph 63 of your	21	A. Yes.
22	report, neither of those two were elected, correct?	22	Q. It's Martinez, Morris and Chabot as the
23	A. That's correct.	23	highest estimated white support?
24	Q. Okay. The two candidates in 2006 that you	24	A. Yes.
25	estimate as having the highest levels of white support	25	Q. And if you look at Paragraph 59 in your
	Page 142		Page 144
1	were Schroeder and Knowles, correct? Knowles is spelled	1	report, it appears that all three of them were elected,
2	K-n-o-w-l-e-s.		
	K II G W I G S.	2	correct?
3	A. Yes.	3	correct? A. Correct.
3 4			
	A. Yes.	3	A. Correct.
4	A. Yes. Q. And both were elected, correct?	3 4	A. Correct.Q. Okay. 2012, the two candidates that you
4 5	A. Yes.Q. And both were elected, correct?A. Yes.	3 4 5	A. Correct. Q. Okay. 2012, the two candidates that you estimate as having the highest levels of white support are
4 5 6	A. Yes.Q. And both were elected, correct?A. Yes.Q. Okay. The next election I want to look at is	3 4 5 6	A. Correct. Q. Okay. 2012, the two candidates that you estimate as having the highest levels of white support are B. Morris and Schroeder; is that right?
4 5 6 7	 A. Yes. Q. And both were elected, correct? A. Yes. Q. Okay. The next election I want to look at is 2009. There were two seats in this election, correct? 	3 4 5 6 7	 A. Correct. Q. Okay. 2012, the two candidates that you estimate as having the highest levels of white support are B. Morris and Schroeder; is that right? A. Yes.
4 5 6 7 8 9	 A. Yes. Q. And both were elected, correct? A. Yes. Q. Okay. The next election I want to look at is 2009. There were two seats in this election, correct? A. Yes. Q. And the two candidates that you estimate as having the highest levels of black support were Knowles 	3 4 5 6 7 8 9	 A. Correct. Q. Okay. 2012, the two candidates that you estimate as having the highest levels of white support are B. Morris and Schroeder; is that right? A. Yes. Q. And if you're looking at paragraph MS. ORMSBY: You said white support. Did you mean
4 5 6 7 8 9 10	 A. Yes. Q. And both were elected, correct? A. Yes. Q. Okay. The next election I want to look at is 2009. There were two seats in this election, correct? A. Yes. Q. And the two candidates that you estimate as having the highest levels of black support were Knowles and Schroeder? 	3 4 5 6 7 8 9 10	 A. Correct. Q. Okay. 2012, the two candidates that you estimate as having the highest levels of white support are B. Morris and Schroeder; is that right? A. Yes. Q. And if you're looking at paragraph MS. ORMSBY: You said white support. Did you mean MR. HO: Oh, did I say white? I apologize.
4 5 6 7 8 9 10 11	 A. Yes. Q. And both were elected, correct? A. Yes. Q. Okay. The next election I want to look at is 2009. There were two seats in this election, correct? A. Yes. Q. And the two candidates that you estimate as having the highest levels of black support were Knowles and Schroeder? A. Yes. 	3 4 5 6 7 8 9 10 11	 A. Correct. Q. Okay. 2012, the two candidates that you estimate as having the highest levels of white support are B. Morris and Schroeder; is that right? A. Yes. Q. And if you're looking at paragraph MS. ORMSBY: You said white support. Did you mean MR. HO: Oh, did I say white? I apologize. MS. ORMSBY: Yeah.
4 5 6 7 8 9 10 11 12 13	 A. Yes. Q. And both were elected, correct? A. Yes. Q. Okay. The next election I want to look at is 2009. There were two seats in this election, correct? A. Yes. Q. And the two candidates that you estimate as having the highest levels of black support were Knowles and Schroeder? A. Yes. Q. And both were elected? 	3 4 5 6 7 8 9 10 11 12 13	 A. Correct. Q. Okay. 2012, the two candidates that you estimate as having the highest levels of white support are B. Morris and Schroeder; is that right? A. Yes. Q. And if you're looking at paragraph MS. ORMSBY: You said white support. Did you mean MR. HO: Oh, did I say white? I apologize. MS. ORMSBY: Yeah. Q. I meant black support. The two candidates
4 5 6 7 8 9 10 11 12 13 14	 A. Yes. Q. And both were elected, correct? A. Yes. Q. Okay. The next election I want to look at is 2009. There were two seats in this election, correct? A. Yes. Q. And the two candidates that you estimate as having the highest levels of black support were Knowles and Schroeder? A. Yes. Q. And both were elected? A. Yes. 	3 4 5 6 7 8 9 10 11 12 13	 A. Correct. Q. Okay. 2012, the two candidates that you estimate as having the highest levels of white support are B. Morris and Schroeder; is that right? A. Yes. Q. And if you're looking at paragraph MS. ORMSBY: You said white support. Did you mean MR. HO: Oh, did I say white? I apologize. MS. ORMSBY: Yeah. Q. I meant black support. The two candidates that you estimate as having the highest levels of black
4 5 6 7 8 9 10 11 12 13 14 15	 A. Yes. Q. And both were elected, correct? A. Yes. Q. Okay. The next election I want to look at is 2009. There were two seats in this election, correct? A. Yes. Q. And the two candidates that you estimate as having the highest levels of black support were Knowles and Schroeder? A. Yes. Q. And both were elected? A. Yes. Q. Okay. And the two candidates that you 	3 4 5 6 7 8 9 10 11 12 13 14 15	 A. Correct. Q. Okay. 2012, the two candidates that you estimate as having the highest levels of white support are B. Morris and Schroeder; is that right? A. Yes. Q. And if you're looking at paragraph MS. ORMSBY: You said white support. Did you mean MR. HO: Oh, did I say white? I apologize. MS. ORMSBY: Yeah. Q. I meant black support. The two candidates that you estimate as having the highest levels of black support are B. Morris and Schroeder; is that right?
4 5 6 7 8 9 10 11 12 13 14 15	 A. Yes. Q. And both were elected, correct? A. Yes. Q. Okay. The next election I want to look at is 2009. There were two seats in this election, correct? A. Yes. Q. And the two candidates that you estimate as having the highest levels of black support were Knowles and Schroeder? A. Yes. Q. And both were elected? A. Yes. Q. Okay. And the two candidates that you estimate as having the highest levels of white support 	3 4 5 6 7 8 9 10 11 12 13 14 15 16	 A. Correct. Q. Okay. 2012, the two candidates that you estimate as having the highest levels of white support are B. Morris and Schroeder; is that right? A. Yes. Q. And if you're looking at paragraph MS. ORMSBY: You said white support. Did you mean MR. HO: Oh, did I say white? I apologize. MS. ORMSBY: Yeah. Q. I meant black support. The two candidates that you estimate as having the highest levels of black support are B. Morris and Schroeder; is that right? A. Yes.
4 5 6 7 8 9 10 11 12 13 14 15 16	 A. Yes. Q. And both were elected, correct? A. Yes. Q. Okay. The next election I want to look at is 2009. There were two seats in this election, correct? A. Yes. Q. And the two candidates that you estimate as having the highest levels of black support were Knowles and Schroeder? A. Yes. Q. And both were elected? A. Yes. Q. Okay. And the two candidates that you estimate as having the highest levels of white support were Schroeder and Knowles, correct? 	3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	 A. Correct. Q. Okay. 2012, the two candidates that you estimate as having the highest levels of white support are B. Morris and Schroeder; is that right? A. Yes. Q. And if you're looking at paragraph MS. ORMSBY: You said white support. Did you mean MR. HO: Oh, did I say white? I apologize. MS. ORMSBY: Yeah. Q. I meant black support. The two candidates that you estimate as having the highest levels of black support are B. Morris and Schroeder; is that right? A. Yes. Q. And if you look at Paragraph 57 of thank
4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	A. Yes. Q. And both were elected, correct? A. Yes. Q. Okay. The next election I want to look at is 2009. There were two seats in this election, correct? A. Yes. Q. And the two candidates that you estimate as having the highest levels of black support were Knowles and Schroeder? A. Yes. Q. And both were elected? A. Yes. Q. Okay. And the two candidates that you estimate as having the highest levels of white support were Schroeder and Knowles, correct? A. Yes.	3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	 A. Correct. Q. Okay. 2012, the two candidates that you estimate as having the highest levels of white support are B. Morris and Schroeder; is that right? A. Yes. Q. And if you're looking at paragraph MS. ORMSBY: You said white support. Did you mean MR. HO: Oh, did I say white? I apologize. MS. ORMSBY: Yeah. Q. I meant black support. The two candidates that you estimate as having the highest levels of black support are B. Morris and Schroeder; is that right? A. Yes. Q. And if you look at Paragraph 57 of thank you for that, Cindy.
4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	A. Yes. Q. And both were elected, correct? A. Yes. Q. Okay. The next election I want to look at is 2009. There were two seats in this election, correct? A. Yes. Q. And the two candidates that you estimate as having the highest levels of black support were Knowles and Schroeder? A. Yes. Q. And both were elected? A. Yes. Q. Okay. And the two candidates that you estimate as having the highest levels of white support were Schroeder and Knowles, correct? A. Yes. Q. In that order. And they were both elected,	3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	 A. Correct. Q. Okay. 2012, the two candidates that you estimate as having the highest levels of white support are B. Morris and Schroeder; is that right? A. Yes. Q. And if you're looking at paragraph MS. ORMSBY: You said white support. Did you mean MR. HO: Oh, did I say white? I apologize. MS. ORMSBY: Yeah. Q. I meant black support. The two candidates that you estimate as having the highest levels of black support are B. Morris and Schroeder; is that right? A. Yes. Q. And if you look at Paragraph 57 of thank you for that, Cindy. MS. ORMSBY: Uh-huh.
4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	A. Yes. Q. And both were elected, correct? A. Yes. Q. Okay. The next election I want to look at is 2009. There were two seats in this election, correct? A. Yes. Q. And the two candidates that you estimate as having the highest levels of black support were Knowles and Schroeder? A. Yes. Q. And both were elected? A. Yes. Q. Okay. And the two candidates that you estimate as having the highest levels of white support were Schroeder and Knowles, correct? A. Yes. Q. In that order. And they were both elected, right?	3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	 A. Correct. Q. Okay. 2012, the two candidates that you estimate as having the highest levels of white support are B. Morris and Schroeder; is that right? A. Yes. Q. And if you're looking at paragraph MS. ORMSBY: You said white support. Did you mean MR. HO: Oh, did I say white? I apologize. MS. ORMSBY: Yeah. Q. I meant black support. The two candidates that you estimate as having the highest levels of black support are B. Morris and Schroeder; is that right? A. Yes. Q. And if you look at Paragraph 57 of thank you for that, Cindy. MS. ORMSBY: Uh-huh. Q. If you look at Paragraph 57, it appears that
4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	 A. Yes. Q. And both were elected, correct? A. Yes. Q. Okay. The next election I want to look at is 2009. There were two seats in this election, correct? A. Yes. Q. And the two candidates that you estimate as having the highest levels of black support were Knowles and Schroeder? A. Yes. Q. And both were elected? A. Yes. Q. Okay. And the two candidates that you estimate as having the highest levels of white support were Schroeder and Knowles, correct? A. Yes. Q. In that order. And they were both elected, right? A. Yes. 	3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	A. Correct. Q. Okay. 2012, the two candidates that you estimate as having the highest levels of white support are B. Morris and Schroeder; is that right? A. Yes. Q. And if you're looking at paragraph MS. ORMSBY: You said white support. Did you mean MR. HO: Oh, did I say white? I apologize. MS. ORMSBY: Yeah. Q. I meant black support. The two candidates that you estimate as having the highest levels of black support are B. Morris and Schroeder; is that right? A. Yes. Q. And if you look at Paragraph 57 of thank you for that, Cindy. MS. ORMSBY: Uh-huh. Q. If you look at Paragraph 57, it appears that Schroeder was successful, but B. Morris was not; is that
4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	A. Yes. Q. And both were elected, correct? A. Yes. Q. Okay. The next election I want to look at is 2009. There were two seats in this election, correct? A. Yes. Q. And the two candidates that you estimate as having the highest levels of black support were Knowles and Schroeder? A. Yes. Q. And both were elected? A. Yes. Q. Okay. And the two candidates that you estimate as having the highest levels of white support were Schroeder and Knowles, correct? A. Yes. Q. In that order. And they were both elected, right? A. Yes. Q. Okay. 2011, there were three seats up in this	3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	 A. Correct. Q. Okay. 2012, the two candidates that you estimate as having the highest levels of white support are B. Morris and Schroeder; is that right? A. Yes. Q. And if you're looking at paragraph MS. ORMSBY: You said white support. Did you mean MR. HO: Oh, did I say white? I apologize. MS. ORMSBY: Yeah. Q. I meant black support. The two candidates that you estimate as having the highest levels of black support are B. Morris and Schroeder; is that right? A. Yes. Q. And if you look at Paragraph 57 of thank you for that, Cindy. MS. ORMSBY: Uh-huh. Q. If you look at Paragraph 57, it appears that Schroeder was successful, but B. Morris was not; is that correct?
4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	 A. Yes. Q. And both were elected, correct? A. Yes. Q. Okay. The next election I want to look at is 2009. There were two seats in this election, correct? A. Yes. Q. And the two candidates that you estimate as having the highest levels of black support were Knowles and Schroeder? A. Yes. Q. And both were elected? A. Yes. Q. Okay. And the two candidates that you estimate as having the highest levels of white support were Schroeder and Knowles, correct? A. Yes. Q. In that order. And they were both elected, right? A. Yes. Q. Okay. 2011, there were three seats up in this election, correct? 	3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	A. Correct. Q. Okay. 2012, the two candidates that you estimate as having the highest levels of white support are B. Morris and Schroeder; is that right? A. Yes. Q. And if you're looking at paragraph MS. ORMSBY: You said white support. Did you mean MR. HO: Oh, did I say white? I apologize. MS. ORMSBY: Yeah. Q. I meant black support. The two candidates that you estimate as having the highest levels of black support are B. Morris and Schroeder; is that right? A. Yes. Q. And if you look at Paragraph 57 of thank you for that, Cindy. MS. ORMSBY: Uh-huh. Q. If you look at Paragraph 57, it appears that Schroeder was successful, but B. Morris was not; is that correct? A. I believe so.
4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	A. Yes. Q. And both were elected, correct? A. Yes. Q. Okay. The next election I want to look at is 2009. There were two seats in this election, correct? A. Yes. Q. And the two candidates that you estimate as having the highest levels of black support were Knowles and Schroeder? A. Yes. Q. And both were elected? A. Yes. Q. Okay. And the two candidates that you estimate as having the highest levels of white support were Schroeder and Knowles, correct? A. Yes. Q. In that order. And they were both elected, right? A. Yes. Q. Okay. 2011, there were three seats up in this	3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	 A. Correct. Q. Okay. 2012, the two candidates that you estimate as having the highest levels of white support are B. Morris and Schroeder; is that right? A. Yes. Q. And if you're looking at paragraph MS. ORMSBY: You said white support. Did you mean MR. HO: Oh, did I say white? I apologize. MS. ORMSBY: Yeah. Q. I meant black support. The two candidates that you estimate as having the highest levels of black support are B. Morris and Schroeder; is that right? A. Yes. Q. And if you look at Paragraph 57 of thank you for that, Cindy. MS. ORMSBY: Uh-huh. Q. If you look at Paragraph 57, it appears that Schroeder was successful, but B. Morris was not; is that correct?

	Page 145		Page 147
1	minority-preferred; is that right?	1	for election this year, correct?
2	A. Yes.	2	A. Yes.
3	Q. And if we look at the candidates that you	3	Q. And the two candidates that you estimate as
4	estimate as having the highest levels of white support,	4	having the highest levels of black support were Graves and
5	they are Ebert and Schroeder, in that order; is that	5	Dameron; is that right?
6	correct?	6	A. Yes.
7	A. Yes.	7	Q. And of those two, one minority-preferred
8	Q. And both were elected?	8	candidate, again defining that term as those candidates
9	A. Yes.	9	with the highest point estimates for black support, was
10	Q. Okay. And if we look at 2013 excuse me	10	elected, correct?
11	the candidates that you estimate as having the highest	11	A. Correct.
12	levels of black support in 2013 are Henson and Hogshead,	12	Q. And the two candidates with the highest
13	in that order; is that correct?	13	estimated levels, according to you, of white support were
14	A. Yes.	14	Ebert and Graves; is that right?
15	Q. And of those two, Hogshead was elected only,	15	A. Yes. Let me just check.
16	correct?	16	Q. Sure.
17	A. Yes.	17	A. Yes.
18	Q. And the two candidates that you estimate as	18	Q. And both were elected; is that right?
19	having the highest levels of white support were Hogshead	19	A. Yes.
20	and Brown, in that order; is that correct?	20	Q. Okay. Now, overall here, there's a total of
21	A. Yes.	21	12 contested elections between 2000 and 2015, right?
22	Q. And if we're looking at Paragraph 55 in your	22	A. Yes.
23	report, we can see that both of the two white-preferred	23	Q. And a total of 27 seats that were up for
24	candidates, as defined by the point estimates, were	24	election all together in those 12 contests?
25	successful, correct?	25	A. Yes.
	Page 146		Page 148
			1 age 140
1	_	1	-
1 2	A. Yes.	1 2	Q. Okay. And just so that the record is clear,
	A. Yes.Q. And if we look at 2014, this is an election		Q. Okay. And just so that the record is clear, this exhibit, Exhibit 12, lists those candidates that you
2	A. Yes.	2	Q. Okay. And just so that the record is clear, this exhibit, Exhibit 12, lists those candidates that you estimate as having the highest levels of black support and
2	A. Yes.Q. And if we look at 2014, this is an election with three seats, correct?	2	Q. Okay. And just so that the record is clear, this exhibit, Exhibit 12, lists those candidates that you
2 3 4	A. Yes.Q. And if we look at 2014, this is an election with three seats, correct?A. Yes.	2 3 4	Q. Okay. And just so that the record is clear, this exhibit, Exhibit 12, lists those candidates that you estimate as having the highest levels of black support and the highest levels of white support, two candidates for
2 3 4 5	 A. Yes. Q. And if we look at 2014, this is an election with three seats, correct? A. Yes. Q. And the three candidates with the highest 	2 3 4 5	Q. Okay. And just so that the record is clear, this exhibit, Exhibit 12, lists those candidates that you estimate as having the highest levels of black support and the highest levels of white support, two candidates for two-seat elections, three candidates for three-seat
2 3 4 5 6	 A. Yes. Q. And if we look at 2014, this is an election with three seats, correct? A. Yes. Q. And the three candidates with the highest levels of black support you estimate as estimated by 	2 3 4 5 6	Q. Okay. And just so that the record is clear, this exhibit, Exhibit 12, lists those candidates that you estimate as having the highest levels of black support and the highest levels of white support, two candidates for two-seat elections, three candidates for three-seat elections
2 3 4 5 6 7	A. Yes. Q. And if we look at 2014, this is an election with three seats, correct? A. Yes. Q. And the three candidates with the highest levels of black support you estimate as estimated by you are Paulette-Thurman, Johnson, and Savala; is that	2 3 4 5 6 7	Q. Okay. And just so that the record is clear, this exhibit, Exhibit 12, lists those candidates that you estimate as having the highest levels of black support and the highest levels of white support, two candidates for two-seat elections, three candidates for three-seat elections A. Yes.
2 3 4 5 6 7 8	 A. Yes. Q. And if we look at 2014, this is an election with three seats, correct? A. Yes. Q. And the three candidates with the highest levels of black support you estimate as estimated by you are Paulette-Thurman, Johnson, and Savala; is that correct? 	2 3 4 5 6 7 8	Q. Okay. And just so that the record is clear, this exhibit, Exhibit 12, lists those candidates that you estimate as having the highest levels of black support and the highest levels of white support, two candidates for two-seat elections, three candidates for three-seat elections A. Yes. Q. Correct?
2 3 4 5 6 7 8	 A. Yes. Q. And if we look at 2014, this is an election with three seats, correct? A. Yes. Q. And the three candidates with the highest levels of black support you estimate as estimated by you are Paulette-Thurman, Johnson, and Savala; is that correct? A. Yes. 	2 3 4 5 6 7 8	Q. Okay. And just so that the record is clear, this exhibit, Exhibit 12, lists those candidates that you estimate as having the highest levels of black support and the highest levels of white support, two candidates for two-seat elections, three candidates for three-seat elections A. Yes. Q. Correct? A. Yes.
2 3 4 5 6 7 8 9	 A. Yes. Q. And if we look at 2014, this is an election with three seats, correct? A. Yes. Q. And the three candidates with the highest levels of black support you estimate as estimated by you are Paulette-Thurman, Johnson, and Savala; is that correct? A. Yes. Q. Okay. Could you record that. 	2 3 4 5 6 7 8 9	Q. Okay. And just so that the record is clear, this exhibit, Exhibit 12, lists those candidates that you estimate as having the highest levels of black support and the highest levels of white support, two candidates for two-seat elections, three candidates for three-seat elections A. Yes. Q. Correct? A. Yes. Q. And it lists the number of black-preferred
2 3 4 5 6 7 8 9 10	A. Yes. Q. And if we look at 2014, this is an election with three seats, correct? A. Yes. Q. And the three candidates with the highest levels of black support you estimate as estimated by you are Paulette-Thurman, Johnson, and Savala; is that correct? A. Yes. Q. Okay. Could you record that. A. Yes.	2 3 4 5 6 7 8 9 10	Q. Okay. And just so that the record is clear, this exhibit, Exhibit 12, lists those candidates that you estimate as having the highest levels of black support and the highest levels of white support, two candidates for two-seat elections, three candidates for three-seat elections A. Yes. Q. Correct? A. Yes. Q. And it lists the number of black-preferred candidates defined as those candidates with the highest
2 3 4 5 6 7 8 9 10 11	A. Yes. Q. And if we look at 2014, this is an election with three seats, correct? A. Yes. Q. And the three candidates with the highest levels of black support you estimate as estimated by you are Paulette-Thurman, Johnson, and Savala; is that correct? A. Yes. Q. Okay. Could you record that. A. Yes. Q. And of these three candidates that you	2 3 4 5 6 7 8 9 10 11	Q. Okay. And just so that the record is clear, this exhibit, Exhibit 12, lists those candidates that you estimate as having the highest levels of black support and the highest levels of white support, two candidates for two-seat elections, three candidates for three-seat elections A. Yes. Q. Correct? A. Yes. Q. And it lists the number of black-preferred candidates defined as those candidates with the highest point estimates of black support. It lists the number of
2 3 4 5 6 7 8 9 10 11 12	A. Yes. Q. And if we look at 2014, this is an election with three seats, correct? A. Yes. Q. And the three candidates with the highest levels of black support you estimate as estimated by you are Paulette-Thurman, Johnson, and Savala; is that correct? A. Yes. Q. Okay. Could you record that. A. Yes. Q. And of these three candidates that you estimate having the as having the highest levels of	2 3 4 5 6 7 8 9 10 11 12 13	Q. Okay. And just so that the record is clear, this exhibit, Exhibit 12, lists those candidates that you estimate as having the highest levels of black support and the highest levels of white support, two candidates for two-seat elections, three candidates for three-seat elections A. Yes. Q. Correct? A. Yes. Q. And it lists the number of black-preferred candidates defined as those candidates with the highest point estimates of black support. It lists the number of those candidates that were elected in each election,
2 3 4 5 6 7 8 9 10 11 12 13	A. Yes. Q. And if we look at 2014, this is an election with three seats, correct? A. Yes. Q. And the three candidates with the highest levels of black support you estimate as estimated by you are Paulette-Thurman, Johnson, and Savala; is that correct? A. Yes. Q. Okay. Could you record that. A. Yes. Q. And of these three candidates that you estimate having the as having the highest levels of support amongst black voters, only one was elected; is	2 3 4 5 6 7 8 9 10 11 12 13	Q. Okay. And just so that the record is clear, this exhibit, Exhibit 12, lists those candidates that you estimate as having the highest levels of black support and the highest levels of white support, two candidates for two-seat elections, three candidates for three-seat elections A. Yes. Q. Correct? A. Yes. Q. And it lists the number of black-preferred candidates defined as those candidates with the highest point estimates of black support. It lists the number of those candidates that were elected in each election, correct?
2 3 4 5 6 7 8 9 10 11 12 13 14 15	A. Yes. Q. And if we look at 2014, this is an election with three seats, correct? A. Yes. Q. And the three candidates with the highest levels of black support you estimate as estimated by you are Paulette-Thurman, Johnson, and Savala; is that correct? A. Yes. Q. Okay. Could you record that. A. Yes. Q. And of these three candidates that you estimate having the as having the highest levels of support amongst black voters, only one was elected; is that correct?	2 3 4 5 6 7 8 9 10 11 12 13 14	Q. Okay. And just so that the record is clear, this exhibit, Exhibit 12, lists those candidates that you estimate as having the highest levels of black support and the highest levels of white support, two candidates for two-seat elections, three candidates for three-seat elections A. Yes. Q. Correct? A. Yes. Q. And it lists the number of black-preferred candidates defined as those candidates with the highest point estimates of black support. It lists the number of those candidates that were elected in each election, correct? A. Yes.
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	A. Yes. Q. And if we look at 2014, this is an election with three seats, correct? A. Yes. Q. And the three candidates with the highest levels of black support you estimate as estimated by you are Paulette-Thurman, Johnson, and Savala; is that correct? A. Yes. Q. Okay. Could you record that. A. Yes. Q. And of these three candidates that you estimate having the as having the highest levels of support amongst black voters, only one was elected; is that correct? A. That is correct.	2 3 4 5 6 7 8 9 10 11 12 13 14 15	Q. Okay. And just so that the record is clear, this exhibit, Exhibit 12, lists those candidates that you estimate as having the highest levels of black support and the highest levels of white support, two candidates for two-seat elections, three candidates for three-seat elections A. Yes. Q. Correct? A. Yes. Q. And it lists the number of black-preferred candidates defined as those candidates with the highest point estimates of black support. It lists the number of those candidates that were elected in each election, correct? A. Yes. Q. And it does the same thing for white
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	A. Yes. Q. And if we look at 2014, this is an election with three seats, correct? A. Yes. Q. And the three candidates with the highest levels of black support you estimate as estimated by you are Paulette-Thurman, Johnson, and Savala; is that correct? A. Yes. Q. Okay. Could you record that. A. Yes. Q. And of these three candidates that you estimate having the as having the highest levels of support amongst black voters, only one was elected; is that correct? A. That is correct. Q. And the three candidates that you estimate as	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	Q. Okay. And just so that the record is clear, this exhibit, Exhibit 12, lists those candidates that you estimate as having the highest levels of black support and the highest levels of white support, two candidates for two-seat elections, three candidates for three-seat elections A. Yes. Q. Correct? A. Yes. Q. And it lists the number of black-preferred candidates defined as those candidates with the highest point estimates of black support. It lists the number of those candidates that were elected in each election, correct? A. Yes. Q. And it does the same thing for white candidates, correct?
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	A. Yes. Q. And if we look at 2014, this is an election with three seats, correct? A. Yes. Q. And the three candidates with the highest levels of black support you estimate as estimated by you are Paulette-Thurman, Johnson, and Savala; is that correct? A. Yes. Q. Okay. Could you record that. A. Yes. Q. And of these three candidates that you estimate having the as having the highest levels of support amongst black voters, only one was elected; is that correct? A. That is correct. Q. And the three candidates that you estimate as having the highest levels of white support are Chabot, P.	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	Q. Okay. And just so that the record is clear, this exhibit, Exhibit 12, lists those candidates that you estimate as having the highest levels of black support and the highest levels of white support, two candidates for two-seat elections, three candidates for three-seat elections A. Yes. Q. Correct? A. Yes. Q. And it lists the number of black-preferred candidates defined as those candidates with the highest point estimates of black support. It lists the number of those candidates that were elected in each election, correct? A. Yes. Q. And it does the same thing for white candidates, correct? A. Yes.
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	A. Yes. Q. And if we look at 2014, this is an election with three seats, correct? A. Yes. Q. And the three candidates with the highest levels of black support you estimate as estimated by you are Paulette-Thurman, Johnson, and Savala; is that correct? A. Yes. Q. Okay. Could you record that. A. Yes. Q. And of these three candidates that you estimate having the as having the highest levels of support amongst black voters, only one was elected; is that correct? A. That is correct. Q. And the three candidates that you estimate as having the highest levels of white support are Chabot, P. Morris and Benz; is that right?	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	Q. Okay. And just so that the record is clear, this exhibit, Exhibit 12, lists those candidates that you estimate as having the highest levels of black support and the highest levels of white support, two candidates for two-seat elections, three candidates for three-seat elections A. Yes. Q. Correct? A. Yes. Q. And it lists the number of black-preferred candidates defined as those candidates with the highest point estimates of black support. It lists the number of those candidates that were elected in each election, correct? A. Yes. Q. And it does the same thing for white candidates, correct? A. Yes. Q. Okay. Using that definition of minority-preferred as those candidates with the highest
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	A. Yes. Q. And if we look at 2014, this is an election with three seats, correct? A. Yes. Q. And the three candidates with the highest levels of black support you estimate as estimated by you are Paulette-Thurman, Johnson, and Savala; is that correct? A. Yes. Q. Okay. Could you record that. A. Yes. Q. And of these three candidates that you estimate having the as having the highest levels of support amongst black voters, only one was elected; is that correct? A. That is correct. Q. And the three candidates that you estimate as having the highest levels of white support are Chabot, P. Morris and Benz; is that right? A. Yes.	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	Q. Okay. And just so that the record is clear, this exhibit, Exhibit 12, lists those candidates that you estimate as having the highest levels of black support and the highest levels of white support, two candidates for two-seat elections, three candidates for three-seat elections A. Yes. Q. Correct? A. Yes. Q. And it lists the number of black-preferred candidates defined as those candidates with the highest point estimates of black support. It lists the number of those candidates that were elected in each election, correct? A. Yes. Q. And it does the same thing for white candidates, correct? A. Yes. Q. Okay. Using that definition of minority-preferred as those candidates with the highest
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	A. Yes. Q. And if we look at 2014, this is an election with three seats, correct? A. Yes. Q. And the three candidates with the highest levels of black support you estimate as estimated by you are Paulette-Thurman, Johnson, and Savala; is that correct? A. Yes. Q. Okay. Could you record that. A. Yes. Q. And of these three candidates that you estimate having the as having the highest levels of support amongst black voters, only one was elected; is that correct? A. That is correct. Q. And the three candidates that you estimate as having the highest levels of white support are Chabot, P. Morris and Benz; is that right? A. Yes. Q. And two of three of those white-preferred	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	Q. Okay. And just so that the record is clear, this exhibit, Exhibit 12, lists those candidates that you estimate as having the highest levels of black support and the highest levels of white support, two candidates for two-seat elections, three candidates for three-seat elections A. Yes. Q. Correct? A. Yes. Q. And it lists the number of black-preferred candidates defined as those candidates with the highest point estimates of black support. It lists the number of those candidates that were elected in each election, correct? A. Yes. Q. And it does the same thing for white candidates, correct? A. Yes. Q. Okay. Using that definition of minority-preferred as those candidates with the highest point estimates of support amongst black voters, how many
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	A. Yes. Q. And if we look at 2014, this is an election with three seats, correct? A. Yes. Q. And the three candidates with the highest levels of black support you estimate as estimated by you are Paulette-Thurman, Johnson, and Savala; is that correct? A. Yes. Q. Okay. Could you record that. A. Yes. Q. And of these three candidates that you estimate having the as having the highest levels of support amongst black voters, only one was elected; is that correct? A. That is correct. Q. And the three candidates that you estimate as having the highest levels of white support are Chabot, P. Morris and Benz; is that right? A. Yes. Q. And two of three of those white-preferred candidates, as we're defining that term for purposes of	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	Q. Okay. And just so that the record is clear, this exhibit, Exhibit 12, lists those candidates that you estimate as having the highest levels of black support and the highest levels of white support, two candidates for two-seat elections, three candidates for three-seat elections A. Yes. Q. Correct? A. Yes. Q. And it lists the number of black-preferred candidates defined as those candidates with the highest point estimates of black support. It lists the number of those candidates that were elected in each election, correct? A. Yes. Q. And it does the same thing for white candidates, correct? A. Yes. Q. Okay. Using that definition of minority-preferred as those candidates with the highest point estimates of support amongst black voters, how many black-preferred candidates have been elected since 2000?

	Page 149		Page 151
1	Q. Great. Now, in your report you said that 14	1	years worth of elections. I count, and you can tell me if
2	out of 27 minority-preferred candidates had been elected	2	I got this wrong, I count there as being, if we go back to
3	since defining minority-preferred as those candidates	3	the 2006 election, 16 available seats in contested
4	with the highest estimates of black support, we went over	4	elections from 2006 through 2015?
5	that, right, Professor Rodden?	5	A. What was your number again?
6	A. Yes. It's clear I must have made a mistake.	6	Q. 16.
7	Q. Okay. So when you say that 14 out of 27	7	A. In the last 10 years I count one, two, three
8	minority-preferred candidates were elected in your report,	8	four, five, six.
9	that's incorrect?	9	Q. You count
10	A. That should be altered to 13.	10	A. Six elections have been held in the last 10
11	Q. Okay. In fact, 14 out of 27 black-preferred	11	years that were contested. The rest were uncontested.
12	candidates were not successful in the contested elections	12	Q. Oh, right. I meant the number of seats in
13	from 2000 to 2015; is that correct?	13	those six elections.
14	A. That is correct.	14	A. Okay.
15	Q. Okay. And again, we're using this definition	15	Q. I have 16 seats in those six elections.
16	of black-preferred or minority-preferred as those	16	A. So we're agreeing that by years, you mean
17	candidates with the highest estimates point estimates	17	years, not election
18	of black voter support. What's the percentage and I'm	18	Q. Yes.
19	providing you with a calculator here. What is the	19	A contested elections?
20	percentage of black-preferred candidates who have been	20	Q. Yes. I'm going back to the year 2006.
21	successful in contested elections from 2000 to 2015?	21	A. Beginning with.
22	A. 48 percent.	22	Q. Starting with 2006. Sorry if that wasn't
23	Q. And so it's fair to say that using this	23	clear.
24	definition of minority-preferred candidates, that is those	24	A. You would like to apply a periodization that
25	candidates with the highest point estimates for black	25	begins in 2006?
		-	
	Page 150		Page 152
1	Page 150 voter support, a majority of black-preferred candidates	1	Page 152 Q. Yes.
1 2		1 2	-
	voter support, a majority of black-preferred candidates		Q. Yes.
2	voter support, a majority of black-preferred candidates did not prevail in contested elections between 2000 and	2	Q. Yes. A. That is, you have selected that as a cut point for a line on this chart that you would like me to fill in? Just want to understand what we're doing here.
3	voter support, a majority of black-preferred candidates did not prevail in contested elections between 2000 and 2015, correct?	2 3	Q. Yes.A. That is, you have selected that as a cut point for a line on this chart that you would like me to fill
2 3 4	voter support, a majority of black-preferred candidates did not prevail in contested elections between 2000 and 2015, correct? A. A very slim majority, yes.	2 3 4	Q. Yes. A. That is, you have selected that as a cut point for a line on this chart that you would like me to fill in? Just want to understand what we're doing here.
2 3 4 5	voter support, a majority of black-preferred candidates did not prevail in contested elections between 2000 and 2015, correct? A. A very slim majority, yes. Q. Now, let's do the same numbers for	2 3 4 5 6 7	 Q. Yes. A. That is, you have selected that as a cut point for a line on this chart that you would like me to fill in? Just want to understand what we're doing here. Q. Yeah. We just did the, you know, last 15
2 3 4 5 6	voter support, a majority of black-preferred candidates did not prevail in contested elections between 2000 and 2015, correct? A. A very slim majority, yes. Q. Now, let's do the same numbers for white-preferred candidates. Can you tell me how many	2 3 4 5 6 7 8	 Q. Yes. A. That is, you have selected that as a cut point for a line on this chart that you would like me to fill in? Just want to understand what we're doing here. Q. Yeah. We just did the, you know, last 15 years.
2 3 4 5 6 7	voter support, a majority of black-preferred candidates did not prevail in contested elections between 2000 and 2015, correct? A. A very slim majority, yes. Q. Now, let's do the same numbers for white-preferred candidates. Can you tell me how many white-preferred candidates were elected in the contested	2 3 4 5 6 7 8	 Q. Yes. A. That is, you have selected that as a cut point for a line on this chart that you would like me to fill in? Just want to understand what we're doing here. Q. Yeah. We just did the, you know, last 15 years. A. So we're going to do one, two, three, four,
2 3 4 5 6 7 8	voter support, a majority of black-preferred candidates did not prevail in contested elections between 2000 and 2015, correct? A. A very slim majority, yes. Q. Now, let's do the same numbers for white-preferred candidates. Can you tell me how many white-preferred candidates were elected in the contested or won office in the contested elections in the Ferguson-Florissant school district from 2000 to 2015? A. Looks like 24.	2 3 4 5 6 7 8 9	Q. Yes. A. That is, you have selected that as a cut point for a line on this chart that you would like me to fill in? Just want to understand what we're doing here. Q. Yeah. We just did the, you know, last 15 years. A. So we're going to do one, two, three, four, five, six the last seven elections, last seven contested elections? Q. Yes, because there were seven contested
2 3 4 5 6 7 8 9 10	voter support, a majority of black-preferred candidates did not prevail in contested elections between 2000 and 2015, correct? A. A very slim majority, yes. Q. Now, let's do the same numbers for white-preferred candidates. Can you tell me how many white-preferred candidates were elected in the contested or won office in the contested elections in the Ferguson-Florissant school district from 2000 to 2015? A. Looks like 24. Q. So 24 out of 27 white-preferred candidates, as	2 3 4 5 6 7 8 9 10	Q. Yes. A. That is, you have selected that as a cut point for a line on this chart that you would like me to fill in? Just want to understand what we're doing here. Q. Yeah. We just did the, you know, last 15 years. A. So we're going to do one, two, three, four, five, six the last seven elections, last seven contested elections? Q. Yes, because there were seven contested elections in the previous decade
2 3 4 5 6 7 8 9 10 11	voter support, a majority of black-preferred candidates did not prevail in contested elections between 2000 and 2015, correct? A. A very slim majority, yes. Q. Now, let's do the same numbers for white-preferred candidates. Can you tell me how many white-preferred candidates were elected in the contested or won office in the contested elections in the Ferguson-Florissant school district from 2000 to 2015? A. Looks like 24. Q. So 24 out of 27 white-preferred candidates, as we're defining that term for purposes of this exercise,	2 3 4 5 6 7 8 9 10 11 12	 Q. Yes. A. That is, you have selected that as a cut point for a line on this chart that you would like me to fill in? Just want to understand what we're doing here. Q. Yeah. We just did the, you know, last 15 years. A. So we're going to do one, two, three, four, five, six the last seven elections, last seven contested elections? Q. Yes, because there were seven contested elections in the previous decade A. Yes.
2 3 4 5 6 7 8 9 10 11 12 13	voter support, a majority of black-preferred candidates did not prevail in contested elections between 2000 and 2015, correct? A. A very slim majority, yes. Q. Now, let's do the same numbers for white-preferred candidates. Can you tell me how many white-preferred candidates were elected in the contested or won office in the contested elections in the Ferguson-Florissant school district from 2000 to 2015? A. Looks like 24. Q. So 24 out of 27 white-preferred candidates, as we're defining that term for purposes of this exercise, were successful, correct?	2 3 4 5 6 7 8 9 10 11 12 13	 Q. Yes. A. That is, you have selected that as a cut point for a line on this chart that you would like me to fill in? Just want to understand what we're doing here. Q. Yeah. We just did the, you know, last 15 years. A. So we're going to do one, two, three, four, five, six the last seven elections, last seven contested elections? Q. Yes, because there were seven contested elections in the previous decade A. Yes. Q in the Ferguson-Florissant school district;
2 3 4 5 6 7 8 9 10 11 12 13	voter support, a majority of black-preferred candidates did not prevail in contested elections between 2000 and 2015, correct? A. A very slim majority, yes. Q. Now, let's do the same numbers for white-preferred candidates. Can you tell me how many white-preferred candidates were elected in the contested or won office in the contested elections in the Ferguson-Florissant school district from 2000 to 2015? A. Looks like 24. Q. So 24 out of 27 white-preferred candidates, as we're defining that term for purposes of this exercise, were successful, correct? A. Yes.	2 3 4 5 6 7 8 9 10 11 12 13 14	 Q. Yes. A. That is, you have selected that as a cut point for a line on this chart that you would like me to fill in? Just want to understand what we're doing here. Q. Yeah. We just did the, you know, last 15 years. A. So we're going to do one, two, three, four, five, six the last seven elections, last seven contested elections? Q. Yes, because there were seven contested elections in the previous decade A. Yes. Q in the Ferguson-Florissant school district; you agree with that, right?
2 3 4 5 6 7 8 9 10 11 12 13 14	voter support, a majority of black-preferred candidates did not prevail in contested elections between 2000 and 2015, correct? A. A very slim majority, yes. Q. Now, let's do the same numbers for white-preferred candidates. Can you tell me how many white-preferred candidates were elected in the contested or won office in the contested elections in the Ferguson-Florissant school district from 2000 to 2015? A. Looks like 24. Q. So 24 out of 27 white-preferred candidates, as we're defining that term for purposes of this exercise, were successful, correct? A. Yes. Q. And fair to say essentially that using this	2 3 4 5 6 7 8 9 10 11 12 13 14	Q. Yes. A. That is, you have selected that as a cut point for a line on this chart that you would like me to fill in? Just want to understand what we're doing here. Q. Yeah. We just did the, you know, last 15 years. A. So we're going to do one, two, three, four, five, six the last seven elections, last seven contested elections? Q. Yes, because there were seven contested elections in the previous decade A. Yes. Q in the Ferguson-Florissant school district; you agree with that, right? A. I yes. If we want to throw out all of the
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	voter support, a majority of black-preferred candidates did not prevail in contested elections between 2000 and 2015, correct? A. A very slim majority, yes. Q. Now, let's do the same numbers for white-preferred candidates. Can you tell me how many white-preferred candidates were elected in the contested or won office in the contested elections in the Ferguson-Florissant school district from 2000 to 2015? A. Looks like 24. Q. So 24 out of 27 white-preferred candidates, as we're defining that term for purposes of this exercise, were successful, correct? A. Yes. Q. And fair to say essentially that using this definition of white-preferred candidates, that	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	Q. Yes. A. That is, you have selected that as a cut point for a line on this chart that you would like me to fill in? Just want to understand what we're doing here. Q. Yeah. We just did the, you know, last 15 years. A. So we're going to do one, two, three, four, five, six the last seven elections, last seven contested elections? Q. Yes, because there were seven contested elections in the previous decade A. Yes. Q in the Ferguson-Florissant school district; you agree with that, right? A. I yes. If we want to throw out all of the elections in which candidates did not receive challengers,
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	voter support, a majority of black-preferred candidates did not prevail in contested elections between 2000 and 2015, correct? A. A very slim majority, yes. Q. Now, let's do the same numbers for white-preferred candidates. Can you tell me how many white-preferred candidates were elected in the contested or won office in the contested elections in the Ferguson-Florissant school district from 2000 to 2015? A. Looks like 24. Q. So 24 out of 27 white-preferred candidates, as we're defining that term for purposes of this exercise, were successful, correct? A. Yes. Q. And fair to say essentially that using this definition of white-preferred candidates, that white-preferred candidates almost always win in the	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	Q. Yes. A. That is, you have selected that as a cut point for a line on this chart that you would like me to fill in? Just want to understand what we're doing here. Q. Yeah. We just did the, you know, last 15 years. A. So we're going to do one, two, three, four, five, six the last seven elections, last seven contested elections? Q. Yes, because there were seven contested elections in the previous decade A. Yes. Q in the Ferguson-Florissant school district; you agree with that, right? A. I yes. If we want to throw out all of the elections in which candidates did not receive challengers, then that's correct.
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	voter support, a majority of black-preferred candidates did not prevail in contested elections between 2000 and 2015, correct? A. A very slim majority, yes. Q. Now, let's do the same numbers for white-preferred candidates. Can you tell me how many white-preferred candidates were elected in the contested or won office in the contested elections in the Ferguson-Florissant school district from 2000 to 2015? A. Looks like 24. Q. So 24 out of 27 white-preferred candidates, as we're defining that term for purposes of this exercise, were successful, correct? A. Yes. Q. And fair to say essentially that using this definition of white-preferred candidates, that white-preferred candidates almost always win in the Ferguson-Florissant school district?	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	 Q. Yes. A. That is, you have selected that as a cut point for a line on this chart that you would like me to fill in? Just want to understand what we're doing here. Q. Yeah. We just did the, you know, last 15 years. A. So we're going to do one, two, three, four, five, six the last seven elections, last seven contested elections? Q. Yes, because there were seven contested elections in the previous decade A. Yes. Q in the Ferguson-Florissant school district; you agree with that, right? A. I yes. If we want to throw out all of the elections in which candidates did not receive challengers, then that's correct. Q. Okay.
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	voter support, a majority of black-preferred candidates did not prevail in contested elections between 2000 and 2015, correct? A. A very slim majority, yes. Q. Now, let's do the same numbers for white-preferred candidates. Can you tell me how many white-preferred candidates were elected in the contested or won office in the contested elections in the Ferguson-Florissant school district from 2000 to 2015? A. Looks like 24. Q. So 24 out of 27 white-preferred candidates, as we're defining that term for purposes of this exercise, were successful, correct? A. Yes. Q. And fair to say essentially that using this definition of white-preferred candidates, that white-preferred candidates almost always win in the Ferguson-Florissant school district? A. It's it is fair to say that the number here	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	 Q. Yes. A. That is, you have selected that as a cut point for a line on this chart that you would like me to fill in? Just want to understand what we're doing here. Q. Yeah. We just did the, you know, last 15 years. A. So we're going to do one, two, three, four, five, six the last seven elections, last seven contested elections? Q. Yes, because there were seven contested elections in the previous decade A. Yes. Q in the Ferguson-Florissant school district; you agree with that, right? A. I yes. If we want to throw out all of the elections in which candidates did not receive challengers, then that's correct. Q. Okay. A. So you want to know how many seats?
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	voter support, a majority of black-preferred candidates did not prevail in contested elections between 2000 and 2015, correct? A. A very slim majority, yes. Q. Now, let's do the same numbers for white-preferred candidates. Can you tell me how many white-preferred candidates were elected in the contested or won office in the contested elections in the Ferguson-Florissant school district from 2000 to 2015? A. Looks like 24. Q. So 24 out of 27 white-preferred candidates, as we're defining that term for purposes of this exercise, were successful, correct? A. Yes. Q. And fair to say essentially that using this definition of white-preferred candidates, that white-preferred candidates almost always win in the Ferguson-Florissant school district? A. It's it is fair to say that the number here is 89 percent with this approach.	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	 Q. Yes. A. That is, you have selected that as a cut point for a line on this chart that you would like me to fill in? Just want to understand what we're doing here. Q. Yeah. We just did the, you know, last 15 years. A. So we're going to do one, two, three, four, five, six the last seven elections, last seven contested elections? Q. Yes, because there were seven contested elections in the previous decade A. Yes. Q in the Ferguson-Florissant school district; you agree with that, right? A. I yes. If we want to throw out all of the elections in which candidates did not receive challengers, then that's correct. Q. Okay. A. So you want to know how many seats? Q. Uh-huh.
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	voter support, a majority of black-preferred candidates did not prevail in contested elections between 2000 and 2015, correct? A. A very slim majority, yes. Q. Now, let's do the same numbers for white-preferred candidates. Can you tell me how many white-preferred candidates were elected in the contested or won office in the contested elections in the Ferguson-Florissant school district from 2000 to 2015? A. Looks like 24. Q. So 24 out of 27 white-preferred candidates, as we're defining that term for purposes of this exercise, were successful, correct? A. Yes. Q. And fair to say essentially that using this definition of white-preferred candidates, that white-preferred candidates almost always win in the Ferguson-Florissant school district? A. It's it is fair to say that the number here is 89 percent with this approach. Q. Right. That's about 40 percentage points	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	Q. Yes. A. That is, you have selected that as a cut point for a line on this chart that you would like me to fill in? Just want to understand what we're doing here. Q. Yeah. We just did the, you know, last 15 years. A. So we're going to do one, two, three, four, five, six the last seven elections, last seven contested elections? Q. Yes, because there were seven contested elections in the previous decade A. Yes. Q in the Ferguson-Florissant school district; you agree with that, right? A. I yes. If we want to throw out all of the elections in which candidates did not receive challengers, then that's correct. Q. Okay. A. So you want to know how many seats? Q. Uh-huh. A. 16.
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	voter support, a majority of black-preferred candidates did not prevail in contested elections between 2000 and 2015, correct? A. A very slim majority, yes. Q. Now, let's do the same numbers for white-preferred candidates. Can you tell me how many white-preferred candidates were elected in the contested or won office in the contested elections in the Ferguson-Florissant school district from 2000 to 2015? A. Looks like 24. Q. So 24 out of 27 white-preferred candidates, as we're defining that term for purposes of this exercise, were successful, correct? A. Yes. Q. And fair to say essentially that using this definition of white-preferred candidates, that white-preferred candidates almost always win in the Ferguson-Florissant school district? A. It's it is fair to say that the number here is 89 percent with this approach. Q. Right. That's about 40 percentage points higher than the success rate for black-preferred	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	Q. Yes. A. That is, you have selected that as a cut point for a line on this chart that you would like me to fill in? Just want to understand what we're doing here. Q. Yeah. We just did the, you know, last 15 years. A. So we're going to do one, two, three, four, five, six the last seven elections, last seven contested elections? Q. Yes, because there were seven contested elections in the previous decade A. Yes. Q in the Ferguson-Florissant school district; you agree with that, right? A. I yes. If we want to throw out all of the elections in which candidates did not receive challengers, then that's correct. Q. Okay. A. So you want to know how many seats? Q. Uh-huh. A. 16. Q. Okay. Good. So the chart is correct here
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	voter support, a majority of black-preferred candidates did not prevail in contested elections between 2000 and 2015, correct? A. A very slim majority, yes. Q. Now, let's do the same numbers for white-preferred candidates. Can you tell me how many white-preferred candidates were elected in the contested or won office in the contested elections in the Ferguson-Florissant school district from 2000 to 2015? A. Looks like 24. Q. So 24 out of 27 white-preferred candidates, as we're defining that term for purposes of this exercise, were successful, correct? A. Yes. Q. And fair to say essentially that using this definition of white-preferred candidates, that white-preferred candidates almost always win in the Ferguson-Florissant school district? A. It's it is fair to say that the number here is 89 percent with this approach. Q. Right. That's about 40 percentage points higher than the success rate for black-preferred candidates; is that correct?	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	Q. Yes. A. That is, you have selected that as a cut point for a line on this chart that you would like me to fill in? Just want to understand what we're doing here. Q. Yeah. We just did the, you know, last 15 years. A. So we're going to do one, two, three, four, five, six the last seven elections, last seven contested elections? Q. Yes, because there were seven contested elections in the previous decade A. Yes. Q in the Ferguson-Florissant school district; you agree with that, right? A. I yes. If we want to throw out all of the elections in which candidates did not receive challengers, then that's correct. Q. Okay. A. So you want to know how many seats? Q. Uh-huh. A. 16. Q. Okay. Good. So the chart is correct here when it says 16?
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	voter support, a majority of black-preferred candidates did not prevail in contested elections between 2000 and 2015, correct? A. A very slim majority, yes. Q. Now, let's do the same numbers for white-preferred candidates. Can you tell me how many white-preferred candidates were elected in the contested or won office in the contested elections in the Ferguson-Florissant school district from 2000 to 2015? A. Looks like 24. Q. So 24 out of 27 white-preferred candidates, as we're defining that term for purposes of this exercise, were successful, correct? A. Yes. Q. And fair to say essentially that using this definition of white-preferred candidates, that white-preferred candidates almost always win in the Ferguson-Florissant school district? A. It's it is fair to say that the number here is 89 percent with this approach. Q. Right. That's about 40 percentage points higher than the success rate for black-preferred	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	Q. Yes. A. That is, you have selected that as a cut point for a line on this chart that you would like me to fill in? Just want to understand what we're doing here. Q. Yeah. We just did the, you know, last 15 years. A. So we're going to do one, two, three, four, five, six the last seven elections, last seven contested elections? Q. Yes, because there were seven contested elections in the previous decade A. Yes. Q in the Ferguson-Florissant school district; you agree with that, right? A. I yes. If we want to throw out all of the elections in which candidates did not receive challengers, then that's correct. Q. Okay. A. So you want to know how many seats? Q. Uh-huh. A. 16. Q. Okay. Good. So the chart is correct here

	Page 153		Page 155
1	candidates, again using the same definition, those	1	Q. So if we limit our analysis to the last 10
2	candidates with the highest point estimate of black	2	years, the gap between white and black-preferred candidate
3	support as you've calculated it, how many black-preferred	3	success increases, correct, Dr. Rodden?
4	candidates were successful starting from the 2006 election	4	A. Yes.
5	to the present?	5	Q. It's about 55 percentage points when we look
6	A. Six.	6	at just the previous decade, correct?
7	Q. So six out of 16 black-preferred candidates	7	A. Sure.
8	were successful in the previous decade in the	8	Q. Okay. Now, let's do a different cut, because
9	Ferguson-Florissant school district, again defining	9	I know you objected to the one that I used, and let's just
10	black-preferred as we have, and limiting our analysis to	10	talk about the last five years, so let's start with the
11	contested elections, correct, Dr. Rodden?	11	2011 election to present. Total of five elections over
12	A. Yes.	12	those five years, correct?
13	Q. Can you tell me what success rate that is?	13	A. Correct.
14	A. 37.5 percent.	14	Q. And there were 12 seats up for election
15	Q. Okay. So it's lower if we look at the last 10	15	collectively when you combine those five elections?
16	years, the black-preferred candidate success rate is	16	A. Yes.
17	A. I have I've looked at this and I have	17	Q. And how many black-preferred candidates, as
18	discovered that if you cut the periodization in exactly	18	we're defining that term for purposes of this exercise?
19	the way you have, you can produce a lower number. So you	19	A. Four.
20	have selected the cut point that produces the lowest	20	Q. So four out of 12 black-preferred candidates,
21	number, yes.	21	or 33 percent or so of black candidates were successful;
22	Q. Well, we'll look at other cut points, Dr.	22	is that correct?
23	Rodden, and you're welcome to propose some of your own,	23	A. Yes.
24	but it's a 15-year period, right?	24	Q. So if we look at the last five years instead
25	A. Yes.	25	of the last 10 years, the rate of black-preferred
	Page 154		D 150
	1 age 154		Page 156
1	Q. So I just want to do	1	rage 150 candidate success is actually lower, correct, Dr. Rodden?
1 2	•	1 2	
	Q. So I just want to do		candidate success is actually lower, correct, Dr. Rodden?
2	Q. So I just want to doA. You're free to cut it up however you like.	2	candidate success is actually lower, correct, Dr. Rodden? A. Yes.
2 3	 Q. So I just want to do A. You're free to cut it up however you like. Q 15, 10 and five. We'll just do three, 	2	candidate success is actually lower, correct, Dr. Rodden? A. Yes. Q. Now, if we look at white candidates,
2 3 4	 Q. So I just want to do A. You're free to cut it up however you like. Q 15, 10 and five. We'll just do three, five-year chunks, if that's okay with you. So we did the 	2 3 4	candidate success is actually lower, correct, Dr. Rodden? A. Yes. Q. Now, if we look at white candidates, white-preferred candidates over the last 12 years, how
2 3 4 5	 Q. So I just want to do A. You're free to cut it up however you like. Q 15, 10 and five. We'll just do three, five-year chunks, if that's okay with you. So we did the whole 15 years, and if we now look at the most recent 10 	2 3 4 5	candidate success is actually lower, correct, Dr. Rodden? A. Yes. Q. Now, if we look at white candidates, white-preferred candidates over the last 12 years, how many were successful sorry over the last five years?
2 3 4 5 6	Q. So I just want to do A. You're free to cut it up however you like. Q 15, 10 and five. We'll just do three, five-year chunks, if that's okay with you. So we did the whole 15 years, and if we now look at the most recent 10 years, the last decade, and we look at the contested	2 3 4 5 6	candidate success is actually lower, correct, Dr. Rodden? A. Yes. Q. Now, if we look at white candidates, white-preferred candidates over the last 12 years, how many were successful sorry over the last five years? A. 11.
2 3 4 5 6 7	Q. So I just want to do A. You're free to cut it up however you like. Q 15, 10 and five. We'll just do three, five-year chunks, if that's okay with you. So we did the whole 15 years, and if we now look at the most recent 10 years, the last decade, and we look at the contested elections, six out of 16, or 37.5 percent of	2 3 4 5 6 7	candidate success is actually lower, correct, Dr. Rodden? A. Yes. Q. Now, if we look at white candidates, white-preferred candidates over the last 12 years, how many were successful sorry over the last five years? A. 11. Q. So 11 out of 12 white-preferred candidates
2 3 4 5 6 7 8	Q. So I just want to do A. You're free to cut it up however you like. Q 15, 10 and five. We'll just do three, five-year chunks, if that's okay with you. So we did the whole 15 years, and if we now look at the most recent 10 years, the last decade, and we look at the contested elections, six out of 16, or 37.5 percent of black-preferred candidates, as we're defining that term	2 3 4 5 6 7 8	candidate success is actually lower, correct, Dr. Rodden? A. Yes. Q. Now, if we look at white candidates, white-preferred candidates over the last 12 years, how many were successful sorry over the last five years? A. 11. Q. So 11 out of 12 white-preferred candidates were successful in the previous five years, correct?
2 3 4 5 6 7 8	Q. So I just want to do A. You're free to cut it up however you like. Q 15, 10 and five. We'll just do three, five-year chunks, if that's okay with you. So we did the whole 15 years, and if we now look at the most recent 10 years, the last decade, and we look at the contested elections, six out of 16, or 37.5 percent of black-preferred candidates, as we're defining that term now, were successful, correct?	2 3 4 5 6 7 8	candidate success is actually lower, correct, Dr. Rodden? A. Yes. Q. Now, if we look at white candidates, white-preferred candidates over the last 12 years, how many were successful sorry over the last five years? A. 11. Q. So 11 out of 12 white-preferred candidates were successful in the previous five years, correct? A. Correct.
2 3 4 5 6 7 8 9	Q. So I just want to do A. You're free to cut it up however you like. Q 15, 10 and five. We'll just do three, five-year chunks, if that's okay with you. So we did the whole 15 years, and if we now look at the most recent 10 years, the last decade, and we look at the contested elections, six out of 16, or 37.5 percent of black-preferred candidates, as we're defining that term now, were successful, correct? A. Yes.	2 3 4 5 6 7 8 9	candidate success is actually lower, correct, Dr. Rodden? A. Yes. Q. Now, if we look at white candidates, white-preferred candidates over the last 12 years, how many were successful sorry over the last five years? A. 11. Q. So 11 out of 12 white-preferred candidates were successful in the previous five years, correct? A. Correct. Q. And that's about a 91 percent success rate; is
2 3 4 5 6 7 8 9 10	 Q. So I just want to do A. You're free to cut it up however you like. Q 15, 10 and five. We'll just do three, five-year chunks, if that's okay with you. So we did the whole 15 years, and if we now look at the most recent 10 years, the last decade, and we look at the contested elections, six out of 16, or 37.5 percent of black-preferred candidates, as we're defining that term now, were successful, correct? A. Yes. Q. And that's lower than if we look at the 	2 3 4 5 6 7 8 9 10	candidate success is actually lower, correct, Dr. Rodden? A. Yes. Q. Now, if we look at white candidates, white-preferred candidates over the last 12 years, how many were successful sorry over the last five years? A. 11. Q. So 11 out of 12 white-preferred candidates were successful in the previous five years, correct? A. Correct. Q. And that's about a 91 percent success rate; is that correct?
2 3 4 5 6 7 8 9 10 11	Q. So I just want to do A. You're free to cut it up however you like. Q 15, 10 and five. We'll just do three, five-year chunks, if that's okay with you. So we did the whole 15 years, and if we now look at the most recent 10 years, the last decade, and we look at the contested elections, six out of 16, or 37.5 percent of black-preferred candidates, as we're defining that term now, were successful, correct? A. Yes. Q. And that's lower than if we look at the previous 15 years, correct?	2 3 4 5 6 7 8 9 10 11	candidate success is actually lower, correct, Dr. Rodden? A. Yes. Q. Now, if we look at white candidates, white-preferred candidates over the last 12 years, how many were successful sorry over the last five years? A. 11. Q. So 11 out of 12 white-preferred candidates were successful in the previous five years, correct? A. Correct. Q. And that's about a 91 percent success rate; is that correct? A. Yes.
2 3 4 5 6 7 8 9 10 11 12	 Q. So I just want to do A. You're free to cut it up however you like. Q 15, 10 and five. We'll just do three, five-year chunks, if that's okay with you. So we did the whole 15 years, and if we now look at the most recent 10 years, the last decade, and we look at the contested elections, six out of 16, or 37.5 percent of black-preferred candidates, as we're defining that term now, were successful, correct? A. Yes. Q. And that's lower than if we look at the previous 15 years, correct? A. That is correct. 	2 3 4 5 6 7 8 9 10 11 12	candidate success is actually lower, correct, Dr. Rodden? A. Yes. Q. Now, if we look at white candidates, white-preferred candidates over the last 12 years, how many were successful sorry over the last five years? A. 11. Q. So 11 out of 12 white-preferred candidates were successful in the previous five years, correct? A. Correct. Q. And that's about a 91 percent success rate; is that correct? A. Yes. Q. So the gap in terms of success rate for white
2 3 4 5 6 7 8 9 10 11 12 13 14	 Q. So I just want to do A. You're free to cut it up however you like. Q 15, 10 and five. We'll just do three, five-year chunks, if that's okay with you. So we did the whole 15 years, and if we now look at the most recent 10 years, the last decade, and we look at the contested elections, six out of 16, or 37.5 percent of black-preferred candidates, as we're defining that term now, were successful, correct? A. Yes. Q. And that's lower than if we look at the previous 15 years, correct? A. That is correct. Q. Okay. And can you tell me how many 	2 3 4 5 6 7 8 9 10 11 12 13	candidate success is actually lower, correct, Dr. Rodden? A. Yes. Q. Now, if we look at white candidates, white-preferred candidates over the last 12 years, how many were successful sorry over the last five years? A. 11. Q. So 11 out of 12 white-preferred candidates were successful in the previous five years, correct? A. Correct. Q. And that's about a 91 percent success rate; is that correct? A. Yes. Q. So the gap in terms of success rate for white and black-preferred candidates, if you're just looking at
2 3 4 5 6 7 8 9 10 11 12 13 14 15	 Q. So I just want to do A. You're free to cut it up however you like. Q 15, 10 and five. We'll just do three, five-year chunks, if that's okay with you. So we did the whole 15 years, and if we now look at the most recent 10 years, the last decade, and we look at the contested elections, six out of 16, or 37.5 percent of black-preferred candidates, as we're defining that term now, were successful, correct? A. Yes. Q. And that's lower than if we look at the previous 15 years, correct? A. That is correct. Q. Okay. And can you tell me how many white-preferred candidates were successful in the last 	2 3 4 5 6 7 8 9 10 11 12 13 14	candidate success is actually lower, correct, Dr. Rodden? A. Yes. Q. Now, if we look at white candidates, white-preferred candidates over the last 12 years, how many were successful sorry over the last five years? A. 11. Q. So 11 out of 12 white-preferred candidates were successful in the previous five years, correct? A. Correct. Q. And that's about a 91 percent success rate; is that correct? A. Yes. Q. So the gap in terms of success rate for white and black-preferred candidates, if you're just looking at the last five years, is about 60 percentage points; is
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	Q. So I just want to do A. You're free to cut it up however you like. Q 15, 10 and five. We'll just do three, five-year chunks, if that's okay with you. So we did the whole 15 years, and if we now look at the most recent 10 years, the last decade, and we look at the contested elections, six out of 16, or 37.5 percent of black-preferred candidates, as we're defining that term now, were successful, correct? A. Yes. Q. And that's lower than if we look at the previous 15 years, correct? A. That is correct. Q. Okay. And can you tell me how many white-preferred candidates were successful in the last decade in contested elections starting with 2006 to the	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	candidate success is actually lower, correct, Dr. Rodden? A. Yes. Q. Now, if we look at white candidates, white-preferred candidates over the last 12 years, how many were successful sorry over the last five years? A. 11. Q. So 11 out of 12 white-preferred candidates were successful in the previous five years, correct? A. Correct. Q. And that's about a 91 percent success rate; is that correct? A. Yes. Q. So the gap in terms of success rate for white and black-preferred candidates, if you're just looking at the last five years, is about 60 percentage points; is that correct?
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	Q. So I just want to do A. You're free to cut it up however you like. Q 15, 10 and five. We'll just do three, five-year chunks, if that's okay with you. So we did the whole 15 years, and if we now look at the most recent 10 years, the last decade, and we look at the contested elections, six out of 16, or 37.5 percent of black-preferred candidates, as we're defining that term now, were successful, correct? A. Yes. Q. And that's lower than if we look at the previous 15 years, correct? A. That is correct. Q. Okay. And can you tell me how many white-preferred candidates were successful in the last decade in contested elections starting with 2006 to the present?	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	candidate success is actually lower, correct, Dr. Rodden? A. Yes. Q. Now, if we look at white candidates, white-preferred candidates over the last 12 years, how many were successful sorry over the last five years? A. 11. Q. So 11 out of 12 white-preferred candidates were successful in the previous five years, correct? A. Correct. Q. And that's about a 91 percent success rate; is that correct? A. Yes. Q. So the gap in terms of success rate for white and black-preferred candidates, if you're just looking at the last five years, is about 60 percentage points; is that correct? A. Yes.
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	Q. So I just want to do A. You're free to cut it up however you like. Q 15, 10 and five. We'll just do three, five-year chunks, if that's okay with you. So we did the whole 15 years, and if we now look at the most recent 10 years, the last decade, and we look at the contested elections, six out of 16, or 37.5 percent of black-preferred candidates, as we're defining that term now, were successful, correct? A. Yes. Q. And that's lower than if we look at the previous 15 years, correct? A. That is correct. Q. Okay. And can you tell me how many white-preferred candidates were successful in the last decade in contested elections starting with 2006 to the present? A. 15.	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	candidate success is actually lower, correct, Dr. Rodden? A. Yes. Q. Now, if we look at white candidates, white-preferred candidates over the last 12 years, how many were successful sorry over the last five years? A. 11. Q. So 11 out of 12 white-preferred candidates were successful in the previous five years, correct? A. Correct. Q. And that's about a 91 percent success rate; is that correct? A. Yes. Q. So the gap in terms of success rate for white and black-preferred candidates, if you're just looking at the last five years, is about 60 percentage points; is that correct? A. Yes. Q. Now, I know you mentioned earlier that you
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	 Q. So I just want to do A. You're free to cut it up however you like. Q 15, 10 and five. We'll just do three, five-year chunks, if that's okay with you. So we did the whole 15 years, and if we now look at the most recent 10 years, the last decade, and we look at the contested elections, six out of 16, or 37.5 percent of black-preferred candidates, as we're defining that term now, were successful, correct? A. Yes. Q. And that's lower than if we look at the previous 15 years, correct? A. That is correct. Q. Okay. And can you tell me how many white-preferred candidates were successful in the last decade in contested elections starting with 2006 to the present? A. 15. Q. So 15 out of 16 white-preferred candidates 	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	candidate success is actually lower, correct, Dr. Rodden? A. Yes. Q. Now, if we look at white candidates, white-preferred candidates over the last 12 years, how many were successful sorry over the last five years? A. 11. Q. So 11 out of 12 white-preferred candidates were successful in the previous five years, correct? A. Correct. Q. And that's about a 91 percent success rate; is that correct? A. Yes. Q. So the gap in terms of success rate for white and black-preferred candidates, if you're just looking at the last five years, is about 60 percentage points; is that correct? A. Yes. Q. Now, I know you mentioned earlier that you well, I'm sorry. Let me so let's leave this aside.
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	Q. So I just want to do A. You're free to cut it up however you like. Q 15, 10 and five. We'll just do three, five-year chunks, if that's okay with you. So we did the whole 15 years, and if we now look at the most recent 10 years, the last decade, and we look at the contested elections, six out of 16, or 37.5 percent of black-preferred candidates, as we're defining that term now, were successful, correct? A. Yes. Q. And that's lower than if we look at the previous 15 years, correct? A. That is correct. Q. Okay. And can you tell me how many white-preferred candidates were successful in the last decade in contested elections starting with 2006 to the present? A. 15. Q. So 15 out of 16 white-preferred candidates have been successful in the last decade of contested	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	candidate success is actually lower, correct, Dr. Rodden? A. Yes. Q. Now, if we look at white candidates, white-preferred candidates over the last 12 years, how many were successful sorry over the last five years? A. 11. Q. So 11 out of 12 white-preferred candidates were successful in the previous five years, correct? A. Correct. Q. And that's about a 91 percent success rate; is that correct? A. Yes. Q. So the gap in terms of success rate for white and black-preferred candidates, if you're just looking at the last five years, is about 60 percentage points; is that correct? A. Yes. Q. Now, I know you mentioned earlier that you well, I'm sorry. Let me so let's leave this aside. We'll talk about this issue from a different angle for a
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	Q. So I just want to do A. You're free to cut it up however you like. Q 15, 10 and five. We'll just do three, five-year chunks, if that's okay with you. So we did the whole 15 years, and if we now look at the most recent 10 years, the last decade, and we look at the contested elections, six out of 16, or 37.5 percent of black-preferred candidates, as we're defining that term now, were successful, correct? A. Yes. Q. And that's lower than if we look at the previous 15 years, correct? A. That is correct. Q. Okay. And can you tell me how many white-preferred candidates were successful in the last decade in contested elections starting with 2006 to the present? A. 15. Q. So 15 out of 16 white-preferred candidates have been successful in the last decade of contested elections in the Ferguson-Florissant school district,	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	candidate success is actually lower, correct, Dr. Rodden? A. Yes. Q. Now, if we look at white candidates, white-preferred candidates over the last 12 years, how many were successful sorry over the last five years? A. 11. Q. So 11 out of 12 white-preferred candidates were successful in the previous five years, correct? A. Correct. Q. And that's about a 91 percent success rate; is that correct? A. Yes. Q. So the gap in terms of success rate for white and black-preferred candidates, if you're just looking at the last five years, is about 60 percentage points; is that correct? A. Yes. Q. Now, I know you mentioned earlier that you well, I'm sorry. Let me so let's leave this aside. We'll talk about this issue from a different angle for a second. Now, we established earlier, looking at Figure 8
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	Q. So I just want to do A. You're free to cut it up however you like. Q 15, 10 and five. We'll just do three, five-year chunks, if that's okay with you. So we did the whole 15 years, and if we now look at the most recent 10 years, the last decade, and we look at the contested elections, six out of 16, or 37.5 percent of black-preferred candidates, as we're defining that term now, were successful, correct? A. Yes. Q. And that's lower than if we look at the previous 15 years, correct? A. That is correct. Q. Okay. And can you tell me how many white-preferred candidates were successful in the last decade in contested elections starting with 2006 to the present? A. 15. Q. So 15 out of 16 white-preferred candidates have been successful in the last decade of contested elections in the Ferguson-Florissant school district, correct?	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	candidate success is actually lower, correct, Dr. Rodden? A. Yes. Q. Now, if we look at white candidates, white-preferred candidates over the last 12 years, how many were successful sorry over the last five years? A. 11. Q. So 11 out of 12 white-preferred candidates were successful in the previous five years, correct? A. Correct. Q. And that's about a 91 percent success rate; is that correct? A. Yes. Q. So the gap in terms of success rate for white and black-preferred candidates, if you're just looking at the last five years, is about 60 percentage points; is that correct? A. Yes. Q. Now, I know you mentioned earlier that you well, I'm sorry. Let me so let's leave this aside. We'll talk about this issue from a different angle for a second. Now, we established earlier, looking at Figure 8 in your report, that the lines extending from the dots are
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	Q. So I just want to do A. You're free to cut it up however you like. Q 15, 10 and five. We'll just do three, five-year chunks, if that's okay with you. So we did the whole 15 years, and if we now look at the most recent 10 years, the last decade, and we look at the contested elections, six out of 16, or 37.5 percent of black-preferred candidates, as we're defining that term now, were successful, correct? A. Yes. Q. And that's lower than if we look at the previous 15 years, correct? A. That is correct. Q. Okay. And can you tell me how many white-preferred candidates were successful in the last decade in contested elections starting with 2006 to the present? A. 15. Q. So 15 out of 16 white-preferred candidates have been successful in the last decade of contested elections in the Ferguson-Florissant school district, correct? A. Yes.	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	candidate success is actually lower, correct, Dr. Rodden? A. Yes. Q. Now, if we look at white candidates, white-preferred candidates over the last 12 years, how many were successful sorry over the last five years? A. 11. Q. So 11 out of 12 white-preferred candidates were successful in the previous five years, correct? A. Correct. Q. And that's about a 91 percent success rate; is that correct? A. Yes. Q. So the gap in terms of success rate for white and black-preferred candidates, if you're just looking at the last five years, is about 60 percentage points; is that correct? A. Yes. Q. Now, I know you mentioned earlier that you well, I'm sorry. Let me so let's leave this aside. We'll talk about this issue from a different angle for a second. Now, we established earlier, looking at Figure 8 in your report, that the lines extending from the dots are the confidence intervals, correct?

intervals, they appear on this spreadsheet that we were using before, correct? 2 using before, correct? 3 A Yes. 4 Q. So if we look at Rodden Exhibit 11, and the 10th as the support of each candidate is that correct? 5 bounds of the confidence intervals for black support for each candidate is that correct? 6 A Yes. 9 Q. And the sixth and eighth columns give us the upper and lower bounds of the confidence intervals for white support for each candidate is that one depth columns give us the upper and lower bounds of the confidence interval for white support for each candidate in each election; is that correct? 10 Q. And we established earlier what those confidence intervals mean; that you know to a 95 degree - confidence intervals mean; that you know to a 95 degree - confidence intervals mean; that you know to a 95 degree - confidence intervals mean; that you know to a 95 degree - confidence intervals mean; that you know to a 95 degree - confidence intervals mean; that you know to a 95 degree - confidence intervals mean; that you know to a 95 degree - confidence intervals mean; that you know to a 95 degree - confidence intervals creat, the confidence interval correct, Dr. Rodden? 10 A Ves. 10 And that's the standard of certitude that you would use in pere review publication. I know, you said there were the publication in know, but that's what's generally accepted within the field of political science? 10 A Ves. 11 African-American, correct? 12 A Ves. 13 Q. And that's the standard of certitude that you would use in pere review publication. I know you said that now, but that's what's generally accepted within the field of political science? 12 A Ves. 13 Q. Now, I want to lalk about the results of the confidence interval correct? 14 A Yes. 15 Conference intervals or confidence interval to the confidence interval to		Page 157		Page 159
3 Q. And given what you've seen here, these 4 statistics, would you describe her as a black-preferred 5 bounds of the confidence intervals for black support for 6 each candidate; is that correct? 8 A. Yes. 9 Q. And the sixth and eighth columns give us the 10 upper and lower bounds of the confidence intervals for black support for 11 white support for each candidate in each election; is that 12 correct? 13 A. Uh-huh. 14 Q. And we established earlier what those 15 confidence intervals mean; that you know to a 95 degree 16 sorry 95 percent degree of certainty that the support 17 for a candidate from a particular racial group lies within 18 that confidence interval, correct, Dr. Rodden? 19 A. Yes. 20 Q. And that's the standard of certifude that you 21 would use in peer review publication. I know you said 22 there's some discussion about that now, but that's what's 23 generally accepted within the field of political science? 24 A. Yes. 25 Q. Now, I want to talk about the results of the 26 candidate: 27 A. Yes. 28 Q. And the sixth and eighth columns give us the 28 upport or each candidate support 29 A. Yes. 20 Q. And the sixth and eighth columns give us the 29 upper and lower bounds of the confidence intervals for black support. 29 A. Yes. 20 Q. And the sixth and eighth columns give us the 29 upper and lower bounds of the confidence intervals of the support 20 A. Yes. 21 A. Wes. 22 Q. And that's much less than the 49 percent that 23 you stimate for Dr. Graves, correct? 24 A. Yes. 25 Q. And that's the standard of certifude that you 26 you due in peer review publication. I know you said 27 there's some discussion about that now, but that's what's 28 generally accepted within the field of political science? 29 Q. Now, I want to talk about the results of the 20 A. Yes. 20 Q. Now, I want to talk about the results of the 21 that is correct? 21 A. Yes. 22 Q. O. Now, I want to talk about the results of the 22 Careas map have enouraged some workers 23 generally accepted within the field of political science? 24 A. Yes.	1	intervals, they appear on this spreadsheet that we were	1	African-American, correct?
4 statistics, would you describe her as a black-preferred bounds of the confidence intervals for black support for each candidate; that correct? 7 each candidate; that correct? 8 A. Yes. 9 C. And the sixth and eighth columns give us the upper and lower bounds of the confidence interval for white support for each candidate in each election; is that correct? 10 white support for each candidate in each election; is that correct? 11 white support for each candidate in each election; is that correct? 12 correct? 13 A. Uh hub. 14 C. And we established earlier what those confidence intervals mean; that you know to a 95 degree	2	using before, correct?	2	A. Yes.
5 fifth and seventh columns give us the upper and lower 6 bounds of the confidence intervals for black support for 7 each candidate: is that correct? 8 A. Yes. 9 Q. And the sixth and eighth columns give us the 10 upper and lower bounds of the confidence interval for 11 white support for each candidate in each election: is that 12 correct? 13 A. Uh huh. 14 Q. And we established earlier what those 15 confidence intervals mean; that you know to a 95 degree 16 sorry 95 percent degree of certainty that the support 17 for a candidate from a particular racial group lies within 18 that confidence interval; correct, Dr. Rodden? 19 A. Yes. 10 Q. And that's the standard of certitude that you 10 would use in peer review publication. I know you said 11 there's some discussion about that now, but that's what's 12 generally accepted within the field of political science? 13 A. Ves. 14 Yes. 15 Q. Now, I want to talk about the results of the 16 Page 158 17 A. Yes. 18 Q. Oxay. Now about that only with that's what's 19 you're serving a single-shot approach to voting, Ms. Graves 10 Oxay. And according to your point estimates 10 A. Yes. 11 A. Yes. 12 Q. And I believe a some point you mentioned that 12 the 2015 election involved a candidate suggesting that 13 voters empty a single-shot approach to voting, Ms. Graves 14 O. Oxay. And according to your point estimates 15 a correct? 16 A. Yes. 17 A. Yes. 18 Q. Oxay. And according to your point estimates 19 here, she got about 49 percent or all votes cast by black 10 voters; that's your estimate, correct? 11 A. Yes. 12 Q. And I believe you describe this in your report 13 as strong support from African-Americans, and specifically 18 A. African-Americans support to substantially with lines? I st hat no confidence intervals 19 you're - I mean is that implicit in what you're 20 Q. Okay. 21 A. But African-American support to the remaining 22 candidates was spill almost evenly between Dameron, Ebert, 22 Lines and Person. 23 Q. Okay, I want to get to that in a second, but 24 Q. Oxay in fa	3	A. Yes.	3	Q. And given what you've seen here, these
bounds of the confidence intervals for black support for a each candidate; it hat correct? A Yes. A Yes. A And the sixth and eighth columns give us the upper and lower bounds of the confidence interval for white support for each candidate in each election; is that correct? A Uh-huh. A Uh-huh. A C. And we established earlier what those confidence intervals mean; that you know to a 95 degree - sarry 95 percent degree of certainty that the support for a candidate from a particular racial group lies within that confidence intervals mean; that you know to a 95 degree - sarry 95 percent degree of certainty that the support for a candidate from a particular racial group lies within that confidence intervals correct. Dr. Rodden? A Yes. Page 158 Page 158 Page 160 Page 160 Page 160 A Yes. A Ye	4	Q. So if we look at Rodden Exhibit 11, and the	4	statistics, would you describe her as a black-preferred
ach candidate; is that correct? A Yes. A Yes. A Ond the sixth and eighth columns give us the upper and lower bounds of the confidence interval for white support of each candidate in each election; is that correct? A Uh-huh. A Uh-huh. A Ond we established earlier what those confidence intervals mean; that you know to a 95 degree confidence interval group lies within that confidence interval, correct, Dr. Rodden? A Yes. A Nes.	5	fifth and seventh columns give us the upper and lower	5	candidate?
8	6	bounds of the confidence intervals for black support for	6	A. Yes.
on the sixth and eighth columns give us the upper and lower bounds of the confidence interval for white support for each candidate in each election; is that correct? A. Uh-huh. Co. And we established earlier what those confidence intervals mean; that you know to a 95 degree confidence intervals mean; that you know to a 95 degree confidence intervals mean; that you know to a 95 degree confidence interval, correct, Dr. Rodden? A. Yes. Co. And that's the standard of certitude that you would use in peer review publication. I know you said there's some discussion about that row, but that's what? Expect the 2015 election. I believe at some point you mentioned that the 2015 election involved a candidate suggesting that youters employ a single-shot approach to voting, Ms. Graves or Dr. Graves, I can't remember now if she has a doctorate or her and for no other candidates; is that right? A. Yes. Co. And I believe you describe this in your report as strong support from African-Americans, and specifically I'm looking at Page 26, Paragraph 47, the last sentence. A. Yes. Co. Last fair to call that strong support that she got 1 than they voted for Dameron, who is white, than Mr. Hines, and preson. Co. Last fair to call that strong support that she got 1 that the she got 1 that that she got 1 4 percent of all votes cast by Marcha. Americans intervals overset? A. Yes. Co. And the support from back voters is lower than the day percent that it is difficult to identify a clear second minute of the present of all votes cast by black voters: that's your estimate, correct? A. Yes. Co. And a Delieve you describe this in your report as a strong support from African-Americans, and specifically I'm looking at Page 26, Paragraph 47, the last sentence. A. Yes. Co. Last fair to call that strong support that she got 1 that percent of all votes cast by black voters; that's your estimate, correct? The softman and the confidence intervals overage. A. Wes. Co. Last fair to call that strong support that she specifically in the percent of all v	7	each candidate; is that correct?	7	Q. Now, you mentioned the other candidates.
upper and lower bounds of the confidence interval for white support for each candidate in each election; is that correct? 1 A. Uh-huh. 1 A. Uh-huh. 1 C. And we established earlier what those confidence intervals mean; that you know to a 95 degree—1 sorry—95 percent degree of certainty that the support for a candidate from a particular racial group lies within that confidence intervals mean; that you know to a 95 degree—1 sorry—95 percent degree of certainty that the support for a candidate from a particular racial group lies within that confidence intervals, correct, Dr. Rodden? 1 A. Yes. 2 C. And that's the standard of certitude that you would use in peer review publication. I know you said there's some discussion about that now, but that's what's generally accepted within the field of political science? 2 A. Yes. 2 G. Now, I want to talk about the results of the Page 158 1 2015 election. I believe at some point you mentioned that the 2015 election involved a candidate suggesting that volers employ a single-shot approach to voting, Ms. Graves or Dr. Graves, I can't remember now if she has a doctorate or Dr. Graves may have encouraged some voters to vote for her and for no other candidates; is that right? A. Yes. 3 Q. Okay. And according to your point estimates here, she got about 49 percent of all votes cast by black voters. In the 49 percent that the 49 percent that to you estimate for Dr. Graves, I can't remember now, but that's what's generally accepted within the field of political science? 2 A. Yes. 3 Q. And that's much less than the 49 percent that you estimate for Dr. Graves, correct? 4 A. Yes. 5 Q. And that's much less than the 49 percent that you estimate for Dr. Graves, correct? 5 A. Yes. 6 Q. Now, I want to talk about the results of the support more black voters is lower than the lowed voters is that correct? 5 A. Yes. 6 Q. Now, I want to talk about the results of the statistical certainty or sufficient statistical certainty or sufficient statistical certainty or sufficient statistical certainty	8	A. Yes.	8	Let's talk about the candidate with the second highest
white support for each candidate in each election; is that correct? A. Uh-huh. O. And we established earlier what those confidence intervals mean; that you know to a 95 degree is confidence intervals mean; that you know to a 95 degree is confidence intervals mean; that you know to a 95 degree is confidence intervals group lies within the support for a candidate from a particular racial group lies within that confidence interval, correct, Dr. Rodden? A. Yes. O. And that's much less than the 49 percent that you well was that confidence intervals, correct, Dr. Rodden? A. Yes. O. And that's much less than the 49 percent that you sestimate for Dr. Graves, correct? A. Yes. O. And the upper bound for Dameron's estimated support from black voters is lower than the lower bound for Dr. Graves' estimate of support among black voters; is dear to green that the correct? A. Yes. D. And that's much less than the 49 percent that you sestimate for Dr. Graves, correct? A. Yes. O. And the upper bound for Dameron's estimated support from black voters is lower than the lower bound for Dr. Graves' estimate of support among black voters; is that correct? A. Yes. Page 158 Page 158 Page 160 1 2015 election. I believe at some point you mentioned that the 2015 election involved a candidate suggesting that voters employ a single-shot approach to voting, Ms. Graves are properly and the first three sentences on this page. You voters employ a single-shot approach to voting, Ms. Graves are properly and the first three sentences on this page. You voters; that's your estimate, correct? A. Yes. O. Okay. Now, I want to look at Page 27 of your report and the first three sentences on this page. You write, "African-American slacked cohesiveness to an extent that it is difficult to identify a clear second minority-preferred candidate. The black dots are clustered together and their confidence intervals overlap. The set material support was slightly higher for Dameron, but the difference is not statistically significant."	9	Q. And the sixth and eighth columns give us the	9	estimate of black support, Dameron. Now, you estimate
12 correct? 13 A Uh-huh. 14 Q. And we established earlier what those 15 confidence intervals mean: that you know to a 95 degree 16 sorry 95 percent degree of certainty that the support 17 for a candidate from a particular racial group lies within 18 that confidence interval, correct, Dr. Rodden? 19 A. Yes. 20 Q. And that's the standard of certitude that you 21 would use in peer review publication. I know you said 22 there's some discussion about that now, but that's what's 23 generally accepted within the field of political science? 24 A. Yes. 25 Q. Now, I want to talk about the results of the 26 q. Now, I want to talk about the results of the 27 a voters employ a single-shot approach to voting, Ms. Graves 28 or Dr. Graves, I can't remember now if she has a doctorate 29 a voters employ a single-shot approach to voting, Ms. Graves 30 Q. Okay. And according to your point estimates 31 here, she got about 49 percent of all votes cast by black 32 voters; that's your estimate, correct? 33 candidates was split almost evenly between Dameron, Ebert, 34 here. 35 A. Yes. 36 Q. Okay. And according to your point estimates 36 A. Yes. 37 C. And believe you describe this in your report 38 as strong support from African-Americans, and specifically 38 I'm looking at Page 26, Paragraph 47, the last sentence. 39 A. Yes. 40 Q. And believe you describe this in your report 41 A. Yes. 41 C. Now, I want to lock at Page 27 of your 42 report and the first three sentences on this page. You 43 voters; that's your estimate, correct? 44 A. Yes. 45 Q. Okay. And according to your point estimates 46 bear a voter sentence on this page. You 47 write, "African-American sucked cohesiveness to an extent that it is difficult to identify a clear second minority-preferred candidate. The black dots are 48 clustered together and their confidence intervals overlap. 49 The estimates suggest that African-Americans support twas 40 The support among black voters for Dameron overlap. 50 A. Yes. 51 A. Yes. 62 C. So I's tart to call that strong support tha	10	upper and lower bounds of the confidence interval for	10	that she got 14 percent of all votes cast by
A. Uh-huh. Q. And we stablished earlier what those confidence intervals mean; that you know to a 95 degree for sorry 95 percent degree of certainty that the support for a candidate from a particular racial group lies within that confidence intervals, correct, Pr. Rodden? A. Yes. Q. And that's the standard of certitude that you would use in peer review publication. I know you said there's some discussion about that now, but that's what's generally accepted within the field of political science? A. Yes. A. Yes. A. Yes. A. Yes. C. And the upper bound for Dameron's estimated support from black voters is lower than the lower bound for Dr. Graves' estimate of support among black voters; is that correct? A. Yes. A. Yes. D. So it's fair to say that we know with statistical certainty or sufficient stati	11	white support for each candidate in each election; is that	11	African-Americans, right?
14 Q. And we established earlier what those confidence intervals mean; that you know to a 95 degree 15 sorry 95 percent degree of certainty that the support 16 for a candidate from a particular racial group lies within 18 that confidence interval, correct, Dr. Rodden? 18 Q. It's about one-third, would you say? A. Yes. 19 Q. And that's the standard of certitude that you would use in peer review publication. I know you said 18 there's some discussion about that now, but that's what's 23 generally accepted within the field of political science? 24 A. Yes. 25 Q. Now, I want to talk about the results of the 2015 election. I believe at some point you mentioned that 2015 election involved a candidate suggesting that voters employ a single-shot approach to voting, Ms. Graves 4 or Dr. Graves, I can't remember now if she has a doctorate 6 her and for no other candidates; is that right? 4 A. Yes. 20 Q. Okay. And according to your point estimates 8 Pers. 20 Q. And I believe you describe this in your report 18 as strong support from African-Americans, and specifically 19 I'm looking at Page 26, Paragraph 47, the last sentence. 19 A. Yes. 10 Q. Okay. And according to your point estimates 8 here, she got about 49 percent of all votes cast by black voters; that's your estimate, correct? 19 A. Yes. 10 Q. And I believe you describe this in your report 19 A. A Yes. 11 A. Yes.	12	correct?	12	A. Yes.
confidence intervals mean; that you know to a 95 degree for sorry - 95 percent degree of certainty that the support for a candidate from a particular racial group lies within that confidence interval, correct, Dr. Rodden? A. Yes. Q. And that's he standard of certitude that you would use in peer review publication. I know you said there's some discussion about that now, but that's what's generally accepted within the field of political science? A. Yes. Q. Now, I want to talk about the results of the Page 158 Page 158 Page 158 Page 160 1 2015 election. I believe at some point you mentioned that the 2015 election involved a candidate suggesting that voters employ a single-shot approach to voting, Ms. Graves or Dr. Graves, I can't remember now if she has a doctorate her and for no other candidates; is that right? A. Yes. Q. Okay. And according to your point estimates here, she got about 49 percent of all votes cast by black voters; that's your estimate, correct? A. Yes. Q. And I believe you describe this in your report as strong support from African-Americans, and specifically I'm looking at Page 26, Paragraph 47, the last sentence. A. Yes. Q. And I believe you describe this in your report satistically significant." Did I read that correctly? A. Yes. Q. Okay. A. Yes. C. So I's's fair to say that the lower bound for Dameron, sestimated support among black voters; is that correct? A. That is correct. So it's fair to say that we know with statistical certainty or say that the know with statistical certainty or say that the know with statistical certainty or say that the lower bound for Dameron, correct? A. Yes. Q. Okay. And according to your point estimates here, she got about 49 percent of all votes cast by black voters; th	13	A. Uh-huh.	13	Q. And that's much less than the 49 percent that
sorry 95 percent degree of certainty that the support for a candidate from a particular racial group lies within that confidence interval, correct, Dr. Rodden? A. Yes. O. And that's the standard of certitude that you would use in peer review publication. I know you said there's some discussion about that now, but that's what's generally accepted within the field of political science? A. Yes. O. Now, I want to talk about the results of the 25 O. Now, I want to talk about the results of the 27 O. Now, I want to talk about the results of the 27 O. Now, I want to talk about the results of the 28 O. Now, I want to talk about the results of the 29 O. Now, I want to talk about the results of the 29 O. Now, I want to talk about the results of the 29 O. Now, I want to talk about the results of the 29 O. Now, I want to talk about the results of the 29 O. Now, I want to talk about the results of the 29 O. Now, I want to talk about the results of the 29 O. Now, I want to talk about the results of the 29 O. Now, I want to talk about the results of the 29 O. Now, I want to talk about the results of the 29 O. Now, I want to look at Page 27 of your report and the first three sentences on this page. You writte, "African-Americans taked cohesiveness to an extent that it is difficult to identify a clear second minority-preferred candidate. The black dots are clustered together and their confidence intervals overlap. The estimates suggest that African-Americans support was slightly higher for Dameron, who is white, than Mr. Hines, who is African-Americans, who is writted that the difference is not statistically with Himes? Is that to one of the things you're expressed chossive support? A. Yes. O. Okay. And according to your point estimates here, she got about 49 percent of all votes cast by black voters; is that your estimate, correct? A. Yes. O. And I believe you describe this in your report as strong support from African-Americans, and specifically I'm looking at Page 26, Paragraph 47, the last sentence. A. Yes. O.	14	Q. And we established earlier what those	14	you estimate for Dr. Graves, correct?
that confidence interval, correct, Dr. Rodden? A. Yes. O. And the upper bound for Dameron's estimated support from black voters is lower than the lower bound for Dr. Graves' estimated support from black voters is lower than the lower bound for Dr. Graves' estimated of support among black voters; is that correct? A. Yes. D. Now, I want to talk about that now, but that's what's generally accepted within the field of political science? A. Yes. D. Now, I want to talk about the results of the Page 158 Page 158 Page 160 That the 2015 election. I believe at some point you mentioned that the 2015 election involved a candidates suggesting that voters employ a single-shot approach to voting, Ms. Graves or Dr. Graves, I can't remember now if she has a doctorate or Dr. Graves, I can't remember now if she has a doctorate for and for no other candidates; is that right? A. Yes. O. Okay. And according to your point estimates here, she got about 49 percent of all votes cast by black voters: that's your estimate, correct? A. Yes. O. Okay. And be upper bound for Dameron, sestimated support among black voters; is that correct? A. Yes. Page 160 That they voted for Dameron, correct? A. Yes. O. Okay. Now, I want to look at Page 27 of your report and the first three sentences on this page. You write, "African-Americans lacked cohesiveness to an extent that it is difficult to identify a clear second minority-preferred candidate. The black dots are clustered together and their confidence intervals overlap. The estimates suggest that African-Americans support was slightly higher for Dameron, who is white, than Mr. Hines, who is African-Americans, behaved cohesively with respect to Dr. Graves. O. Okay. A. But African-Americans support for the remaining candidates was split almost evenly between Dameron, Ebert, Hines and Person. A. But African-Americans support for the remaining candidates was split almost evenly between Dameron, Ebert, Hines and Person. A. Rod La That the point estimate in this case cannot — is not	15	confidence intervals mean; that you know to a 95 degree	15	A. Yes, it's lower.
18 that confidence interval, correct, Dr. Rodden? 19 A. Yes. 20 Q. And that's the standard of certitude that you 21 would use in peer review publication. I know you said 22 there's some discussion about that now, but that's what's 23 generally accepted within the field of political science? 24 A. Yes. 25 Q. Now, I want to talk about the results of the 26 Page 158 27 Page 158 28 Page 158 29 Page 158 20 Losay that black voters voted for Graves at a higher rate 29 A. Yes. 20 Losay that black voters voted for Graves at a higher rate 29 A. Yes. 20 Losay that black voters voted for Graves at a higher rate 20 Losay that black voters voted for Graves at a higher rate 21 the 2015 election involved a candidate suggesting that to the 2015 election involved a candidate suggesting that to the 2015 election involved a candidate suggesting that to the 2015 election involved a candidate suggesting that to the 2015 election involved a candidate suggesting that to the 2015 election involved a candidate suggesting that to the 2015 election involved a candidate suggesting that to the 2015 election involved a candidate suggesting that to the 2015 election involved a candidate suggesting that to the 2015 election involved a candidate suggesting that the 2015 election involved f	16	sorry 95 percent degree of certainty that the support	16	Q. It's about one-third, would you say?
A. Yes. Q. And that's the standard of certitude that you would use in peer review publication. I know you said there's some discussion about that now, but that's what's generally accepted within the field of political science? A. Yes. Q. Now, I want to talk about the results of the page 158 Page 158 Page 158 Page 158 Page 158 Page 158 Page 160 1 2015 election. I believe at some point you mentioned that voters employ a single-shot approach to voting, Ms. Graves or Dr. Graves, I can't remember now if she has a doctorate or Dr. Graves, I can't remember now i	17	for a candidate from a particular racial group lies within	17	A. Yes.
20 Q. And that's the standard of certitude that you would use in peer review publication. I know you said 21 there's some discussion about that now, but that's what's 22 generally accepted within the field of political science? 24 A. Yes. 25 Q. Now, I want to talk about the results of the 25 Q. Now, I want to talk about the results of the 26 Yes. 26 Q. Now, I want to talk about the results of the 27 the 2015 election. I believe at some point you mentioned that 27 the 2015 election involved a candidate suggesting that 38 voters employ a single-shot approach to voting, Ms. Graves 4 or Dr. Graves, I can't remember now if she has a doctorate 4 or Dr. Graves, I can't remember now if she has a doctorate 5 Dr. Graves may have encouraged some voters to vote for 6 her and for no other candidates; is that right? 4 A. Yes. 7 Nes. 8 Q. Okay. And according to your point estimates 9 here, she got about 49 percent of all votes cast by black voters; that's your estimate, correct? 10 Q. And I believe you describe this in your report 11 as strong support from African-Americans, and specifically 1 I'm looking at Page 26, Paragraph 47, the last sentence. 16 Q. Is it fair to call that strong support that 17 she received cohesive support? 18 A. African-Americans behaved cohesively with 18 respect to Dr. Graves. 19 Okay. 1 want to get to that in a second, but 19 okay. 1 want to get to that in a second, but 19 okay. 1 want to get to that in a second, but 19 okay. 1 would be percent and thins. 19 okay. 10 okay. 1 want to get to that in a second, but 19 okay. 10 okay. 1 want to get to that in a second, but 19 okay. 10 okay. 1 want to get to that in a second, but 19 okay. 10 okay. 1 want to get to that in a second, but 19 okay. 11 okay. 12 okay. 12 okay. 12 okay. 14 okay. 15 okay. 16 okay. 16 okay. 16 okay. 16 okay. 16 okay. 16 okay. 17 okay. 16 okay. 17 okay. 18 okay. 18 okay. 18 okay. 19 oka	18	that confidence interval, correct, Dr. Rodden?	18	Q. And the upper bound for Dameron's estimated
there's some discussion about that now, but that's what's generally accepted within the field of political science? A. Yes. C. Now, I want to talk about the results of the Page 158 Page 160 1 2015 election. I believe at some point you mentioned that voters employ a single-shot approach to voting, Ms. Graves or Dr. Graves, I can't remember now if she has a doctorate or Dr. Graves, I can't remember now if she has a doctorate or Dr. Graves, I can't remember now if she has a doctorate or Dr. Graves, I can't remember now if she has a doctorate or Dr. Graves, I can't voters employ a single-shot approach to voting, Ms. Graves or Dr. Graves, I can't remember now if she has a doctorate or Dr. Graves, I can't remember now if she has a	19	A. Yes.	19	support from black voters is lower than the lower bound
there's some discussion about that now, but that's what's generally accepted within the field of political science? A. Yes. D. Now, I want to talk about the results of the Page 158 Page 158 Page 160 Page 158 Page 160 than they voted for Dameron, correct? A. Yes. O. Okay. Now, I want to look at Page 27 of your report as a strong support from African-Americans, and specifically I'm looking at Page 26, Paragraph 47, the last sentence. A. Yes. O. Is it fair to say that black voters with we know with statistical certainty or sufficient statistical certainty to say that black voters voted for Graves at a higher rate to say that black voters voted for Graves at a higher rate to say that black voters voted for Graves at a higher rate to say that black voters voted for Graves at a higher rate to say that black voters voted for Graves at a higher rate to say that black voters voted for Graves at a higher rate to say that black voters of the Graves at a higher rate to say that black voters voted for Graves at a higher rate to say that black voters of the Graves at a higher rate to say that black voters of the Graves at a higher rate to say that black voters voted for Graves at a higher rate to say that black voters of the Graves at a higher rate to say that black voters of Graves at a higher rate to say that black voters of the Graves at a higher rate to say that black voters of Graves at a higher rate to say that black voters of Graves at a higher rate to say that black voters of Graves at a higher rate to say that black voters of Graves at a higher rate to say that black voters of Graves at a higher rate to say that black voters of Graves at a higher rate to say that black voters of Graves at a higher rate to say that black voters of Graves at a higher rate to say that black voters of Graves at a higher rate to say that black voters of Dameron, correct? A. Yes. O. Okay. Now, I want to look at Page 27 of your report as that it is difficult to identify a clear second minority-preferred candidate. The black d	20	Q. And that's the standard of certitude that you	20	for Dr. Graves' estimate of support among black voters; is
23	21	would use in peer review publication. I know you said	21	that correct?
A. Yes. Q. Now, I want to talk about the results of the Page 158 Page 158 Page 158 Page 160 Page 158 Page 160 than they voted for Dameron, correct? A. Yes. Q. Okay. Now, I want to look at Page 27 of your report as the first hard source intervals overlapher of the talk sources; that's your estimate, correct? A. Yes. Q. Okay. And according to your point estimates here, she got about 49 percent of all votes cast by black voters; that's your estimate, correct? A. Yes. Q. And I believe you describe this in your report as strong support from African-Americans, and specifically I'm looking at Page 26, Paragraph 47, the last sentence. A. Yes. Q. Is it fair to call that strong support that she received cohesive support? A. African-Americans behaved cohesively with respect to Dr. Graves. Q. Okay. A. But African-American support for the remaining candidates was split almost evenly between Dameron, Ebert, Hines and Person. Q. Okay. I want to get to that in a second, but Page 158 Page 158 Page 160 than they voted for Dameron, correct? A. Yes. Q. Okay. Now, I want to look at Page 27 of your report and the first three sentences on this page. You write, "African-American slacked cohesiveneess to an extent that it is difficult to identify a clear second minority-preferred candidate. The black dots are clustered together and their confidence intervals overlap. The estimates suggest that African-American support was slightly higher for Dameron, who is white, than Mr. Hines, who is African-American, but the difference is not statistically significant." Did I read that correctly? A. Yes. Q. So I just want to understand what you're saying here. You're saying that the confidence intervals of support among black voters for Dameron overlap substantially with Hines? Is that one of the things you're I mean is that implicit in what you're saying here? A. Hines and Person. Q. Okay. I want to get to that in a second, but A. Yes care report of page 27 of your report that it is difficult to identify a clear			1	A. That is correct.
Page 158 Page 158 Page 160 Page 160 Page 158 Page 160 Page 1				-
Page 158 Page 160 1 2015 election. I believe at some point you mentioned that the 2015 election involved a candidate suggesting that voters employ a single-shot approach to voting, Ms. Graves or Dr. Graves, I can't remember now if she has a doctorate Dr. Graves may have encouraged some voters to vote for her and for no other candidates; is that right? A. Yes. Q. Okay. Now, I want to look at Page 27 of your report and the first three sentences on this page. You write, "African-Americans lacked cohesiveness to an extent that it is difficult to identify a clear second minority-preferred candidate. The black dots are clustered together and their confidence intervals overlap. The estimates suggest that African-American support was slightly higher for Dameron, who is white, than Mr. Hines, who is African-American, but the difference is not statistically significant." A. Yes. Q. And I believe you describe this in your report as strong support from African-Americans, and specifically I'm looking at Page 26, Paragraph 47, the last sentence. A. Yes. Q. Is it fair to call that strong support that she received cohesive support? A. African-Americans behaved cohesively with respect to Dr. Graves. Q. Okay. A. But African-American support for the remaining candidates was split almost evenly between Dameron, Ebert, Hines and Person. Q. Okay. I want to get to that in a second, but Page 160 than they voted for Dameron, correct? A. Yes. Q. Okay. I want to look at Page 27 of your report and the first three sentences on this page. You write, "African-American support wouter from Left at all its affificant to identify a clear second minority-preferred candidate. The black dots are clustered together and their confidence intervals overlap. The estimates suggest that African-American support was slightly higher for Dameron, who is white, than Mr. Hines, who is African-American, but the difference is not statistically significant." Did I read that correctly? A. Yes. Q. So I just want to understand what you're sayin				-
the 2015 election. I believe at some point you mentioned that the 2015 election involved a candidate suggesting that voters employ a single-shot approach to voting, Ms. Graves or Dr. Graves, I can't remember now if she has a doctorate Dr. Graves may have encouraged some voters to vote for her and for no other candidates; is that right? A. Yes. O. Okay. And according to your point estimates here, she got about 49 percent of all votes cast by black voters; that's your estimate, correct? A. Yes. O. And I believe you describe this in your report as strong support from African-Americans, and specifically l'm looking at Page 26, Paragraph 47, the last sentence. A. Yes. O. Is it fair to call that strong support that she received cohesive support? A. A. African-Americans behaved cohesively with respect to Dr. Graves. O. Okay. A. But African-American support for the remaining candidates was split almost evenly between Dameron, Ebert, Hines and Person. I than they voted for Dameron, correct? A. Yes. O. Okay. I want to get to that in a second, but than they voted for Dameron, correct? A. Yes. O. Okay. Now, I want to look at Page 27 of your report and the first three sentences on this page. You write, "African-Americans lacked cohesiveness to an extent that it is difficult to identify a clear second minority-preferred candidate. The black dots are clustered together and their confidence intervals overlap. The estimates suggest that African-American support was slightly higher for Dameron, who is white, than Mr. Hines, who is African-American, but the difference is not statistically significant." Did I read that correctly? A. Yes. O. So I just want to understand what you're saying here. You're saying that the confidence intervals of support among black voters for Dameron overlap substantially with Hines? Is that one of the things you're I mean is that implicit in what you're sayer A. I'm saying that the point estimate in this case cannot is not statistically distinguishable from	25	Q. Now, I want to talk about the results of the	25	to say that black voters voted for Graves at a higher rate
the 2015 election involved a candidate suggesting that voters employ a single-shot approach to voting, Ms. Graves or Dr. Graves, I can't remember now if she has a doctorate Dr. Graves may have encouraged some voters to vote for her and for no other candidates; is that right? A. Yes. O. Okay. And according to your point estimates here, she got about 49 percent of all votes cast by black voters; that's your estimate, correct? A. Yes. O. And I believe you describe this in your report as strong support from African-Americans, and specifically I'm looking at Page 26, Paragraph 47, the last sentence. A. Yes. O. Is it fair to call that strong support that she received cohesive support? A. A But African-Americans behaved cohesively with respect to Dr. Graves. O. Okay. A. But African-American support for the remaining candidates was split almost evenly between Dameron, Ebert, Hines and Person. A. O. Okay. I want to get to that in a second, but A. C. And in fact, it's not statistically A. A fines. O. Okay. I want to get to that in a second, but A. A fines. A. Wes. O. Okay. I want to get to that in a second, but A. A fines. A. A fines. A. A fines. A. But African-American support for the remaining candidates was split almost evenly between Dameron, Ebert, Hines and Person. A. O. Okay. I want to get to that in a second, but A. A fines.		Page 158		Page 160
voters employ a single-shot approach to voting, Ms. Graves or Dr. Graves, I can't remember now if she has a doctorate Dr. Graves may have encouraged some voters to vote for her and for no other candidates; is that right? A. Yes. O. Okay. And according to your point estimates here, she got about 49 percent of all votes cast by black voters; that's your estimate, correct? A. Yes. O. And I believe you describe this in your report as strong support from African-Americans, and specifically I'm looking at Page 26, Paragraph 47, the last sentence. A. Yes. O. Is it fair to call that strong support that she received cohesive support? A. African-Americans behaved cohesively with respect to Dr. Graves. A. But African-American support for the remaining Candidates was spilt almost evenly between Dameron, Ebert, Hines and Person. O. Okay. I want to get to that in a second, but O. Okay. I want to get to that i	1	2015 election. I believe at some point you mentioned that	1	than they voted for Dameron, correct?
or Dr. Graves, I can't remember now if she has a doctorate Dr. Graves may have encouraged some voters to vote for her and for no other candidates; is that right? A. Yes. O. Okay. And according to your point estimates here, she got about 49 percent of all votes cast by black voters; that's your estimate, correct? A. Yes. O. And I believe you describe this in your report as strong support from African-Americans, and specifically I'm looking at Page 26, Paragraph 47, the last sentence. A. Yes. O. Is it fair to call that strong support that she received cohesive support? A. African-Americans behaved cohesively with respect to Dr. Graves. A. Agres. O. Okay. A. Authat strong support for the remaining C. O. Okay. A. But African-American support for the remaining candidates was split almost evenly between Dameron, Ebert, Hines and Person. A. Okay. I want to get to that in a second, but A report and the first three sentences on this page. You write, "African-Americans lacked cohesivenses to an extent that it is difficult to identify a clear second minority-preferred candidate. The black dots are clustered together and their confidence intervals overlap. The estimates suggest that African-American support was slightly higher for Dameron, who is white, than Mr. Hines, who is African-American, but the difference is not statistically significant." Did I read that correctly? A. Yes. O. So I just want to understand what you're saying here. You're saying that the confidence intervals of support among black voters for Dameron overlap substantially with Hines? Is that one of the things you're I mean is that implicit in what you're saying here? A. I'm saying that the point estimate in this case cannot is not statistically distinguishable from between Dameron and Hines. O. And in fact, it's not statistically	2	the 2015 election involved a candidate suggesting that	2	A. Yes.
Dr. Graves may have encouraged some voters to vote for her and for no other candidates; is that right? A. Yes. Q. Okay. And according to your point estimates here, she got about 49 percent of all votes cast by black voters; that's your estimate, correct? A. Yes. C. And I believe you describe this in your report as strong support from African-Americans, and specifically I'm looking at Page 26, Paragraph 47, the last sentence. A. Yes. C. Is it fair to call that strong support that she received cohesive support? A. African-Americans behaved cohesively with respect to Dr. Graves. A. But African-American support for the remaining C. Okay. I want to get to that in a second, but Did I read that correctly? A. I'm saying that the point estimate in this case cannot is not statistically distinguishable from Hines and Person. Did I read that correctly? A. I'm saying that the point estimate in this case cannot is not statistically	3	voters employ a single-shot approach to voting, Ms. Graves	3	Q. Okay. Now, I want to look at Page 27 of your
her and for no other candidates; is that right? A. Yes. O. Okay. And according to your point estimates here, she got about 49 percent of all votes cast by black voters; that's your estimate, correct? A. Yes. O. And I believe you describe this in your report as strong support from African-Americans, and specifically I'm looking at Page 26, Paragraph 47, the last sentence. A. Yes. O. Is it fair to call that strong support that she received cohesive support? A. African-Americans behaved cohesively with respect to Dr. Graves. O. Okay. A. But African-American support for the remaining Candidates was split almost evenly between Dameron, Ebert, Hines and Person. be that it is difficult to identify a clear second minority-preferred candidate. The black dots are clustered together and their confidence intervals oclustered together and their confidence intervals oslightly higher for Dameron, who is white, than Mr. Hines, who is African-American, but the difference is not statistically significant." Did I read that correctly? A. Yes. O. So I just want to understand what you're saying here. You're saying that the confidence intervals of support among black voters for Dameron overlap substantially with Hines? Is that one of the things you're I mean is that implicit in what you're saying here? A. I'm saying that the point estimate in this case cannot is not statistically distinguishable from between Dameron and Hines. Q. Okay. I want to get to that in a second, but	4	or Dr. Graves, I can't remember now if she has a doctorate	4	report and the first three sentences on this page. You
7 A. Yes. 8 Q. Okay. And according to your point estimates 9 here, she got about 49 percent of all votes cast by black 10 voters; that's your estimate, correct? 11 A. Yes. 12 Q. And I believe you describe this in your report 13 as strong support from African-Americans, and specifically 14 I'm looking at Page 26, Paragraph 47, the last sentence. 15 A. Yes. 16 Q. Is it fair to call that strong support that 17 she received cohesive support? 18 A. African-Americans behaved cohesively with 19 respect to Dr. Graves. 20 Q. Okay. 21 A. But African-American support for the remaining 22 candidates was split almost evenly between Dameron, Ebert, 23 Hines and Person. 24 Q. Okay. I want to get to that in a second, but 29 The estimates suggest that African-American support was slightly higher for Dameron, who is white, than Mr. Hines, 29 the estimates suggest that African-American support was slightly higher for Dameron, who is white, than Mr. Hines, 31 who is African-American, but the difference is not statistically significant." 31 Did I read that correctly? 4 A. Yes. 4 A. Yes. 4 Q. Okay. 5 So I just want to understand what you're 4 saying here. You're saying that the confidence intervals 5 of support among black voters for Dameron overlap 6 substantially with Hines? Is that one of the things 7 you're I mean is that implicit in what you're saying 8 here? 9 here? 9 A. I'm saying that the point estimate in this 9 case cannot is not statistically distinguishable from 9 here patents and person. 9 Q. Okay. I want to get to that in a second, but 9 The estimates suggest that African-American support was slightly higher for Dameron, end in fact, it's not statistically	5	Dr. Graves may have encouraged some voters to vote for	5	write, "African-Americans lacked cohesiveness to an extent
O. Okay. And according to your point estimates here, she got about 49 percent of all votes cast by black voters; that's your estimate, correct? A. Yes. O. And I believe you describe this in your report as strong support from African-Americans, and specifically I'm looking at Page 26, Paragraph 47, the last sentence. A. Yes. Did I read that correctly? A. Yes. C. So I just want to understand what you're saying here. You're saying that the confidence intervals overlap. The estimates suggest that African-American support was slightly higher for Dameron, who is white, than Mr. Hines, who is African-American, but the difference is not statistically significant." Did I read that correctly? A. Yes. C. So I just want to understand what you're saying here. You're saying that the confidence intervals of support among black voters for Dameron overlap substantially with Hines? Is that one of the things you're I mean is that implicit in what you're saying Percent of the point estimate in this case cannot is not statistically distinguishable from between Dameron and Hines. O. Okay. I want to get to that in a second, but O. Okay. I want to get to that in a second, but O. Okay. I want to get to that in a second, but O. Okay. I want to get to that in a second, but	6	her and for no other candidates; is that right?	6	that it is difficult to identify a clear second
here, she got about 49 percent of all votes cast by black voters; that's your estimate, correct? A. Yes. C. And I believe you describe this in your report as strong support from African-Americans, and specifically I'm looking at Page 26, Paragraph 47, the last sentence. A. Yes. C. Is it fair to call that strong support that she received cohesive support? A. African-Americans behaved cohesively with respect to Dr. Graves. C. Okay. A. But African-American support for the remaining candidates was split almost evenly between Dameron, Ebert, Hines and Person. Did I read that correctly? A. Yes. C. So I just want to understand what you're saying that the confidence intervals of support among black voters for Dameron overlap substantially with Hines? Is that one of the things you're I mean is that implicit in what you're saying here? A. I'm saying that the point estimate in this case cannot is not statistically distinguishable from between Dameron and Hines. C. Okay. I want to get to that in a second, but Did I read that correctly? A. Yes. O. So I just want to understand what you're saying here. You're saying that the confidence intervals of support among black voters for Dameron overlap substantially with Hines? Is that one of the things you're I mean is that implicit in what you're saying here? A. I'm saying that the point estimate in this case cannot is not statistically distinguishable from between Dameron and Hines. C. Okay. I want to get to that in a second, but Did I read that correctly? A. Yes. O. So I just want to understand what you're saying here. You're saying that the confidence intervals of support among black voters for Dameron overlap substantially with Hines? Is that one of the things respect to Dr. Graves. Did I read that correctly? A. Yes. O. So I just want to understand what you're saying the experiment of support among black voters for Dameron overlap substantially with Hines? Is that one of the things respect to Dr. Graves. Did I read that correctly? A. Y	7	A. Yes.	7	minority-preferred candidate. The black dots are
voters; that's your estimate, correct? A. Yes. Q. And I believe you describe this in your report as strong support from African-Americans, and specifically I'm looking at Page 26, Paragraph 47, the last sentence. A. Yes. A. Yes. Did I read that correctly? A. Yes. A. Yes. O. So I just want to understand what you're saying here. You're saying that the confidence intervals of support among black voters for Dameron overlap substantially with Hines? Is that one of the things you're I mean is that implicit in what you're saying here? A. I'm saying that the point estimate in this candidates was split almost evenly between Dameron, Ebert, Hines and Person. Q. Okay. I want to get to that in a second, but 20 In Salightly higher for Dameron, who is white, than Mr. Hines, who is African-American, but the difference is not statistically significant." Did I read that correctly? A. Yes. Q. So I just want to understand what you're saying that the confidence intervals of support among black voters for Dameron overlap substantially with Hines? Is that one of the things you're I mean is that implicit in what you're saying here? A. I'm saying that the point estimate in this case cannot is not statistically distinguishable from between Dameron and Hines. Q. Okay. I want to get to that in a second, but Q. And in fact, it's not statistically	8	Q. Okay. And according to your point estimates	8	clustered together and their confidence intervals overlap.
A. Yes. Q. And I believe you describe this in your report sa strong support from African-Americans, and specifically I'm looking at Page 26, Paragraph 47, the last sentence. A. Yes. Q. Is it fair to call that strong support that she received cohesive support? A. African-Americans behaved cohesively with respect to Dr. Graves. Q. Okay. A. But African-American support for the remaining candidates was split almost evenly between Dameron, Ebert, Hines and Person. A. Yes. In who is African-American, but the difference is not statistically significant." Did I read that correctly? A. Yes. Q. So I just want to understand what you're saying here. You're saying that the confidence intervals of support among black voters for Dameron overlap substantially with Hines? Is that one of the things you're I mean is that implicit in what you're saying here? A. I'm saying that the point estimate in this case cannot is not statistically distinguishable from between Dameron and Hines. Q. Okay. I want to get to that in a second, but Did I read that correctly? A. Yes. Q. So I just want to understand what you're saying here. You're saying that the confidence intervals of support among black voters for Dameron overlap substantially with Hines? Is that one of the things you're I mean is that implicit in what you're saying here? A. I'm saying that the point estimate in this case cannot is not statistically distinguishable from between Dameron and Hines. Q. Okay. I want to get to that in a second, but Q. And in fact, it's not statistically	9	here, she got about 49 percent of all votes cast by black	9	The estimates suggest that African-American support was
12 Q. And I believe you describe this in your report 13 as strong support from African-Americans, and specifically 14 I'm looking at Page 26, Paragraph 47, the last sentence. 15 A. Yes. 16 Q. Is it fair to call that strong support that 17 she received cohesive support? 18 A. African-Americans behaved cohesively with 19 respect to Dr. Graves. 20 Q. Okay. 21 A. But African-American support for the remaining 22 candidates was split almost evenly between Dameron, Ebert, 24 Pin I statistically significant." 25 Statistically significant." 26 A. Yes. 27 A. Yes. 28 Q. So I just want to understand what you're saying that the confidence intervals of support among black voters for Dameron overlap substantially with Hines? Is that one of the things you're I mean is that implicit in what you're saying here? 29 here? 20 here? 21 A. I'm saying that the point estimate in this case cannot is not statistically distinguishable from between Dameron and Hines. 29 Q. Okay. I want to get to that in a second, but 20 Q. And in fact, it's not statistically	10	voters; that's your estimate, correct?	10	slightly higher for Dameron, who is white, than Mr. Hines,
as strong support from African-Americans, and specifically I'm looking at Page 26, Paragraph 47, the last sentence. A. Yes. C. Is it fair to call that strong support that she received cohesive support? A. African-Americans behaved cohesively with respect to Dr. Graves. C. Okay. A. But African-American support for the remaining candidates was split almost evenly between Dameron, Ebert, Hines and Person. Did I read that correctly? A. Yes. C. So I just want to understand what you're saying here. You're saying that the confidence intervals of support among black voters for Dameron overlap substantially with Hines? Is that one of the things you're I mean is that implicit in what you're saying here? A. I'm saying that the point estimate in this case cannot is not statistically distinguishable from between Dameron and Hines. Q. And in fact, it's not statistically				
14 I'm looking at Page 26, Paragraph 47, the last sentence. 15 A. Yes. 16 Q. Is it fair to call that strong support that 17 she received cohesive support? 18 A. African-Americans behaved cohesively with 19 respect to Dr. Graves. 20 Q. Okay. 21 A. But African-American support for the remaining 22 candidates was split almost evenly between Dameron, Ebert, 23 Hines and Person. 24 Q. Okay. I want to get to that in a second, but 25 So I just want to understand what you're 26 saying here. You're saying that the confidence intervals 27 of support among black voters for Dameron overlap 28 substantially with Hines? Is that one of the things 29 you're I mean is that implicit in what you're saying 20 here? 21 A. I'm saying that the point estimate in this 22 case cannot is not statistically distinguishable from 23 between Dameron and Hines. 24 Q. And in fact, it's not statistically		Q. And I believe you describe this in your report		statistically significant."
15 Q. So I just want to understand what you're 16 Q. Is it fair to call that strong support that 17 she received cohesive support? 18 A. African-Americans behaved cohesively with 18 respect to Dr. Graves. 19 you're I mean is that implicit in what you're saying 20 Q. Okay. 20 here? 21 A. But African-American support for the remaining 22 candidates was split almost evenly between Dameron, Ebert, 23 Hines and Person. 24 Q. Okay. I want to get to that in a second, but 26 So I just want to understand what you're 27 saying that the confidence intervals 28 saying here. You're saying that the confidence intervals 29 of support among black voters for Dameron overlap 29 substantially with Hines? Is that one of the things 20 here? 21 A. I'm saying that the point estimate in this 22 case cannot is not statistically distinguishable from 23 between Dameron and Hines. 24 Q. And in fact, it's not statistically				
16 Q. Is it fair to call that strong support that 17 she received cohesive support? 18 A. African-Americans behaved cohesively with 18 respect to Dr. Graves. 19 you're I mean is that implicit in what you're saying 20 Q. Okay. 20 here? 21 A. But African-American support for the remaining 22 candidates was split almost evenly between Dameron, Ebert, 23 Hines and Person. 24 Q. Okay. I want to get to that in a second, but 26 saying here. You're saying that the confidence intervals 27 of support among black voters for Dameron overlap 28 substantially with Hines? Is that one of the things 29 you're I mean is that implicit in what you're saying 20 here? 21 A. I'm saying that the point estimate in this 22 case cannot is not statistically distinguishable from 23 between Dameron and Hines. 24 Q. And in fact, it's not statistically				
she received cohesive support? A. African-Americans behaved cohesively with 18 substantially with Hines? Is that one of the things 19 respect to Dr. Graves. 19 you're I mean is that implicit in what you're saying 20 Q. Okay. 20 here? 21 A. I'm saying that the point estimate in this 22 candidates was split almost evenly between Dameron, Ebert, 23 Hines and Person. 24 Q. Okay. I want to get to that in a second, but 26 support among black voters for Dameron overlap 27 substantially with Hines? Is that one of the things 28 you're I mean is that implicit in what you're saying 29 here? 21 A. I'm saying that the point estimate in this 22 case cannot is not statistically distinguishable from 23 between Dameron and Hines. 24 Q. And in fact, it's not statistically			1	
A. African-Americans behaved cohesively with respect to Dr. Graves. D. Okay. A. But African-American support for the remaining candidates was split almost evenly between Dameron, Ebert, Hines and Person. A. African-American support for the remaining case cannot is not statistically distinguishable from between Dameron and Hines. A. I'm saying that the point estimate in this case cannot is not statistically distinguishable from between Dameron and Hines. A. I'm saying that the point estimate in this case cannot is not statistically distinguishable from between Dameron and Hines. A. O. Okay. A. I'm saying that the point estimate in this case cannot is not statistically distinguishable from between Dameron and Hines.			1	
respect to Dr. Graves. 20 Q. Okay. 21 A. But African-American support for the remaining 22 candidates was split almost evenly between Dameron, Ebert, 23 Hines and Person. 24 Q. Okay. I want to get to that in a second, but 29 you're I mean is that implicit in what you're saying 20 here? 21 A. I'm saying that the point estimate in this 22 case cannot is not statistically distinguishable from 23 between Dameron and Hines. 24 Q. And in fact, it's not statistically				-
20 Q. Okay. 21 A. But African-American support for the remaining 22 candidates was split almost evenly between Dameron, Ebert, 23 Hines and Person. 24 Q. Okay. I want to get to that in a second, but 20 here? 21 A. I'm saying that the point estimate in this 22 case cannot is not statistically distinguishable from 23 between Dameron and Hines. 24 Q. And in fact, it's not statistically				
A. But African-American support for the remaining 21 A. I'm saying that the point estimate in this 22 candidates was split almost evenly between Dameron, Ebert, 23 Hines and Person. 24 Q. Okay. I want to get to that in a second, but 21 A. I'm saying that the point estimate in this 22 case cannot is not statistically distinguishable from 23 between Dameron and Hines. 24 Q. And in fact, it's not statistically				
22 candidates was split almost evenly between Dameron, Ebert, 23 Hines and Person. 24 Q. Okay. I want to get to that in a second, but 25 case cannot is not statistically distinguishable from 26 between Dameron and Hines. 27 Q. And in fact, it's not statistically		-		
23 Hines and Person. 23 between Dameron and Hines. 24 Q. Okay. I want to get to that in a second, but 24 Q. And in fact, it's not statistically		•		
Q. Okay. I want to get to that in a second, but 24 Q. And in fact, it's not statistically				
20 let 3 stick with Dr. Graves for a moment. Dr. Graves is 20 uistinguisnable from Ebert and Person either, is it? The		-		
	∠5	iet 5 Stick With Dr. Graves IG a moment. Dr. Graves IS	25	uistinguistiable itotti Ebert alid Person eitner, is it? The

	Page 161		Page 163
1	point estimate for black support for Dameron lies within	across all elections. What I wo	ould not find principled
2	the confidence intervals for all of those candidates,	and would not find useful would	d be to only examine the
3	doesn't it?	cases in which there were th	ere was a clear convergence
4	A. The current question again? Does Dameron's	on one candidate, because in the	hese elections sometimes the
5	point estimate lie within the confidence intervals	votes are split among several c	andidates and sometimes
6	Q. For Person, Hines and Ebert?	they converge on one or two, a	and the and each of those
7	A. Let me check. Dameron's point estimate is not	types of elections has very diffe	erent properties.
8	within Ebert's confidence interval.	Q. Right. I see what y	ou're saying. So let's
9	Q. Oh, I'm sorry. But it is within the	try to walk through these e	lections just a little bit more
10	confidence interval for Hines and Person; is that right?	closely and let's just see wh	nat we can agree about with
11	A. Yes.	respect to who's minority-p	preferred and who's not, and
12	Q. So and we established earlier what it means	who's white-preferred and	who's not, given some of these
13	when a point estimate for one value lies within a	difficulties that you've iden	tified. And if we can't come
14	confidence interval for another value. It means you can't	to any consensus on those	things, that's fine, but I just
15	statistically distinguish between them?	want to see if we can. Is th	nat okay?
16	A. Yes. The report is makes that statement in	A. If the task at hand is	to identify a is to
17	Paragraph 48.	come up with a new standard of	during this process, I don't
18	Q. So we don't know, as a statistical matter,	anticipate that I will agree to a	single standard. I
19	whether Dameron got more black support in 2015 than either	believe I've made clear what tv	vo options are that I find
20	Hines or Person; is that correct?	useful.	
21	A. That's correct.	Q. Okay. Well, let's ju	st walk through this and
22	Q. Okay. Fair to say that African-Americans were	just see what we can come	up with, and maybe we can't come
23	not cohesive behind a second choice in this election?	to any kind of consensus or	n anything. I want to mark
24	A. That's correct.	another table as Rodden Ex	hibit 12.
25	Q. And it's difficult to identify a second	COURT REPORTER:	13.
	Dana 162		
	Page 162		Page 164
1	minority-preferred candidate because of that lack of	Q. I'm sorry, 13. We	already did 12.
2	minority-preferred candidate because of that lack of cohesiveness in the 2015 election, correct?	(Whereupon, Rodde	already did 12. en Deposition Exhibit No. 13
2	minority-preferred candidate because of that lack of cohesiveness in the 2015 election, correct? A. That's correct.	(Whereupon, Roddo was marked for identificat	already did 12. en Deposition Exhibit No. 13 ion.)
2 3 4	minority-preferred candidate because of that lack of cohesiveness in the 2015 election, correct? A. That's correct. Q. Okay. So we know I believe your testimony	(Whereupon, Rodd was marked for identificat Q. So the 2015 electi	already did 12. en Deposition Exhibit No. 13 ion.)
2 3 4 5	minority-preferred candidate because of that lack of cohesiveness in the 2015 election, correct? A. That's correct. Q. Okay. So we know I believe your testimony earlier, you described Dr. Graves as a black-preferred	(Whereupon, Rodd was marked for identificat Q. So the 2015 electi right, Dr. Rodden?	already did 12. en Deposition Exhibit No. 13 ion.)
2 3 4 5 6	minority-preferred candidate because of that lack of cohesiveness in the 2015 election, correct? A. That's correct. Q. Okay. So we know I believe your testimony earlier, you described Dr. Graves as a black-preferred candidate?	(Whereupon, Roddo was marked for identificat Q. So the 2015 electi right, Dr. Rodden? A. Yes.	already did 12. en Deposition Exhibit No. 13 ion.) on had two seats in it,
2 3 4 5 6 7	minority-preferred candidate because of that lack of cohesiveness in the 2015 election, correct? A. That's correct. Q. Okay. So we know I believe your testimony earlier, you described Dr. Graves as a black-preferred candidate? A. Yes.	(Whereupon, Roddo was marked for identificat Q. So the 2015 electi right, Dr. Rodden? A. Yes. Q. And we establishe	already did 12. en Deposition Exhibit No. 13 iion.) on had two seats in it, d that you agreed that Dr.
2 3 4 5 6 7 8	minority-preferred candidate because of that lack of cohesiveness in the 2015 election, correct? A. That's correct. Q. Okay. So we know I believe your testimony earlier, you described Dr. Graves as a black-preferred candidate? A. Yes. Q. But we just don't know whether or not there's	(Whereupon, Rodde was marked for identificat Q. So the 2015 electivight, Dr. Rodden? A. Yes. Q. And we established Graves is a minority-preference.	already did 12. en Deposition Exhibit No. 13 ion.) on had two seats in it,
2 3 4 5 6 7 8	minority-preferred candidate because of that lack of cohesiveness in the 2015 election, correct? A. That's correct. Q. Okay. So we know I believe your testimony earlier, you described Dr. Graves as a black-preferred candidate? A. Yes. Q. But we just don't know whether or not there's a second black-preferred candidate in this election, or	(Whereupon, Rodde was marked for identificat Q. So the 2015 elective right, Dr. Rodden? A. Yes. Q. And we established Graves is a minority-preference.	already did 12. en Deposition Exhibit No. 13 cion.) on had two seats in it, d that you agreed that Dr. rred candidate in 2015, correct?
2 3 4 5 6 7 8 9	minority-preferred candidate because of that lack of cohesiveness in the 2015 election, correct? A. That's correct. Q. Okay. So we know I believe your testimony earlier, you described Dr. Graves as a black-preferred candidate? A. Yes. Q. But we just don't know whether or not there's a second black-preferred candidate in this election, or maybe we don't know we think there isn't a second	(Whereupon, Rodde was marked for identificat Q. So the 2015 elective right, Dr. Rodden? A. Yes. Q. And we established Graves is a minority-preference. A. Yes. Q. So let's record Dr.	already did 12. en Deposition Exhibit No. 13 iion.) on had two seats in it, d that you agreed that Dr. rred candidate in 2015, correct? Graves here. And I
2 3 4 5 6 7 8 9 10	minority-preferred candidate because of that lack of cohesiveness in the 2015 election, correct? A. That's correct. Q. Okay. So we know I believe your testimony earlier, you described Dr. Graves as a black-preferred candidate? A. Yes. Q. But we just don't know whether or not there's a second black-preferred candidate in this election, or maybe we don't know we think there isn't a second black-preferred candidate in this election. I just want	(Whereupon, Rodde was marked for identificat Q. So the 2015 elective right, Dr. Rodden? A. Yes. Q. And we established Graves is a minority-preference. A. Yes. Q. So let's record Dr. believe you said that Africa	already did 12. en Deposition Exhibit No. 13 cion.) on had two seats in it, d that you agreed that Dr. rred candidate in 2015, correct? Graves here. And I an-American voters weren't
2 3 4 5 6 7 8 9 10 11 12	minority-preferred candidate because of that lack of cohesiveness in the 2015 election, correct? A. That's correct. Q. Okay. So we know I believe your testimony earlier, you described Dr. Graves as a black-preferred candidate? A. Yes. Q. But we just don't know whether or not there's a second black-preferred candidate in this election, or maybe we don't know we think there isn't a second black-preferred candidate in this election. I just want your opinion as a political scientist here. Is there a	(Whereupon, Rodde was marked for identificat Q. So the 2015 electing right, Dr. Rodden? A. Yes. Q. And we established Graves is a minority-prefer A. Yes. Q. So let's record Dr. believe you said that Africations are considered as second.	already did 12. en Deposition Exhibit No. 13 cion.) on had two seats in it, d that you agreed that Dr. rred candidate in 2015, correct? Graves here. And I an-American voters weren't
2 3 4 5 6 7 8 9 10 11 12 13	minority-preferred candidate because of that lack of cohesiveness in the 2015 election, correct? A. That's correct. Q. Okay. So we know I believe your testimony earlier, you described Dr. Graves as a black-preferred candidate? A. Yes. Q. But we just don't know whether or not there's a second black-preferred candidate in this election, or maybe we don't know we think there isn't a second black-preferred candidate in this election. I just want your opinion as a political scientist here. Is there a second black-preferred candidate in this election?	(Whereupon, Rodde was marked for identificat Q. So the 2015 electicity, Dr. Rodden? A. Yes. Q. And we established Graves is a minority-prefer A. Yes. Q. So let's record Dr. believe you said that Africations is a minority delivery of the cohesive behind a second A. That's correct.	already did 12. en Deposition Exhibit No. 13 iion.) on had two seats in it, d that you agreed that Dr. rred candidate in 2015, correct? Graves here. And I an-American voters weren't choice; is that right?
2 3 4 5 6 7 8 9 10 11 12 13	minority-preferred candidate because of that lack of cohesiveness in the 2015 election, correct? A. That's correct. Q. Okay. So we know I believe your testimony earlier, you described Dr. Graves as a black-preferred candidate? A. Yes. Q. But we just don't know whether or not there's a second black-preferred candidate in this election, or maybe we don't know we think there isn't a second black-preferred candidate in this election. I just want your opinion as a political scientist here. Is there a second black-preferred candidate in this election? A. The concept of a preferred candidate, as I	(Whereupon, Rodde was marked for identificat Q. So the 2015 electivight, Dr. Rodden? A. Yes. Q. And we established Graves is a minority-preference. A. Yes. Q. So let's record Dr. believe you said that Africations is a minority-preference. That's correct. Q. So can we write the	already did 12. en Deposition Exhibit No. 13 cion.) on had two seats in it, d that you agreed that Dr. rred candidate in 2015, correct? Graves here. And I an-American voters weren't choice; is that right?
2 3 4 5 6 7 8 9 10 11 12 13 14	minority-preferred candidate because of that lack of cohesiveness in the 2015 election, correct? A. That's correct. Q. Okay. So we know I believe your testimony earlier, you described Dr. Graves as a black-preferred candidate? A. Yes. Q. But we just don't know whether or not there's a second black-preferred candidate in this election, or maybe we don't know we think there isn't a second black-preferred candidate in this election. I just want your opinion as a political scientist here. Is there a second black-preferred candidate in this election? A. The concept of a preferred candidate, as I described earlier, is one that, in a multi-winner system,	(Whereupon, Rodde was marked for identificat Q. So the 2015 elective right, Dr. Rodden? A. Yes. Q. And we established Graves is a minority-prefer A. Yes. Q. So let's record Dr. believe you said that Africt cohesive behind a second A. That's correct. Q. So can we write the candidate in this election?	already did 12. en Deposition Exhibit No. 13 cion.) on had two seats in it, d that you agreed that Dr. rred candidate in 2015, correct? Graves here. And I an-American voters weren't choice; is that right? nat there was one preferred Would you agree to that?
2 3 4 5 6 7 8 9 10 11 12 13	minority-preferred candidate because of that lack of cohesiveness in the 2015 election, correct? A. That's correct. Q. Okay. So we know I believe your testimony earlier, you described Dr. Graves as a black-preferred candidate? A. Yes. Q. But we just don't know whether or not there's a second black-preferred candidate in this election, or maybe we don't know we think there isn't a second black-preferred candidate in this election. I just want your opinion as a political scientist here. Is there a second black-preferred candidate in this election? A. The concept of a preferred candidate, as I	(Whereupon, Rodde was marked for identificat Q. So the 2015 electivight, Dr. Rodden? A. Yes. Q. And we established Graves is a minority-preference. A. Yes. Q. So let's record Dr. believe you said that Africations is a minority-preference. A. That's correct. Q. So can we write the	already did 12. en Deposition Exhibit No. 13 cion.) on had two seats in it, d that you agreed that Dr. rred candidate in 2015, correct? Graves here. And I an-American voters weren't choice; is that right? nat there was one preferred Would you agree to that? approach that's being
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	minority-preferred candidate because of that lack of cohesiveness in the 2015 election, correct? A. That's correct. Q. Okay. So we know I believe your testimony earlier, you described Dr. Graves as a black-preferred candidate? A. Yes. Q. But we just don't know whether or not there's a second black-preferred candidate in this election, or maybe we don't know we think there isn't a second black-preferred candidate in this election. I just want your opinion as a political scientist here. Is there a second black-preferred candidate in this election? A. The concept of a preferred candidate, as I described earlier, is one that, in a multi-winner system, creates exactly the complexities you're pointing out, and I was very clear about those complexities.	(Whereupon, Rodde was marked for identificat Q. So the 2015 electifight, Dr. Rodden? A. Yes. Q. And we established Graves is a minority-prefer A. Yes. Q. So let's record Dr. believe you said that Africa cohesive behind a second A. That's correct. Q. So can we write the candidate in this election? A. I don't agree to the ataken. I will write down on the candidate in this description.	already did 12. en Deposition Exhibit No. 13 cion.) on had two seats in it, d that you agreed that Dr. rred candidate in 2015, correct? Graves here. And I an-American voters weren't choice; is that right? nat there was one preferred Would you agree to that? approach that's being ne paper what you ask me to
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	minority-preferred candidate because of that lack of cohesiveness in the 2015 election, correct? A. That's correct. Q. Okay. So we know I believe your testimony earlier, you described Dr. Graves as a black-preferred candidate? A. Yes. Q. But we just don't know whether or not there's a second black-preferred candidate in this election, or maybe we don't know we think there isn't a second black-preferred candidate in this election. I just want your opinion as a political scientist here. Is there a second black-preferred candidate in this election? A. The concept of a preferred candidate, as I described earlier, is one that, in a multi-winner system, creates exactly the complexities you're pointing out, and I was very clear about those complexities. I believe the report is very clear about the	(Whereupon, Rodde was marked for identificat Q. So the 2015 electifight, Dr. Rodden? A. Yes. Q. And we established Graves is a minority-prefer A. Yes. Q. So let's record Dr. believe you said that Africa cohesive behind a second A. That's correct. Q. So can we write the candidate in this election? A. I don't agree to the ataken. I will write down on the candidate in this description.	already did 12. en Deposition Exhibit No. 13 cion.) on had two seats in it, d that you agreed that Dr. rred candidate in 2015, correct? Graves here. And I an-American voters weren't choice; is that right? nat there was one preferred Would you agree to that? approach that's being are paper what you ask me to throwing out all of the
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	minority-preferred candidate because of that lack of cohesiveness in the 2015 election, correct? A. That's correct. Q. Okay. So we know I believe your testimony earlier, you described Dr. Graves as a black-preferred candidate? A. Yes. Q. But we just don't know whether or not there's a second black-preferred candidate in this election, or maybe we don't know we think there isn't a second black-preferred candidate in this election. I just want your opinion as a political scientist here. Is there a second black-preferred candidate in this election? A. The concept of a preferred candidate, as I described earlier, is one that, in a multi-winner system, creates exactly the complexities you're pointing out, and I was very clear about those complexities. I believe the report is very clear about the difficulty the difficult analytical choice one has in	(Whereupon, Rodde was marked for identificat Q. So the 2015 electifight, Dr. Rodden? A. Yes. Q. And we established Graves is a minority-prefer A. Yes. Q. So let's record Dr. believe you said that Africt cohesive behind a second A. That's correct. Q. So can we write the candidate in this election? A. I don't agree to the ataken. I will write down on the write, but I don't believe that	already did 12. en Deposition Exhibit No. 13 ition.) on had two seats in it, d that you agreed that Dr. rred candidate in 2015, correct? Graves here. And I an-American voters weren't choice; is that right? nat there was one preferred Would you agree to that? approach that's being ne paper what you ask me to throwing out all of the when African-Americans are
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	minority-preferred candidate because of that lack of cohesiveness in the 2015 election, correct? A. That's correct. Q. Okay. So we know I believe your testimony earlier, you described Dr. Graves as a black-preferred candidate? A. Yes. Q. But we just don't know whether or not there's a second black-preferred candidate in this election, or maybe we don't know we think there isn't a second black-preferred candidate in this election. I just want your opinion as a political scientist here. Is there a second black-preferred candidate in this election? A. The concept of a preferred candidate, as I described earlier, is one that, in a multi-winner system, creates exactly the complexities you're pointing out, and I was very clear about those complexities. I believe the report is very clear about the difficulty the difficult analytical choice one has in trying to identify more than one preferred candidate in	(Whereupon, Rodde was marked for identificat Q. So the 2015 electificat Q. So the 2015 electifight, Dr. Rodden? A. Yes. Q. And we established Graves is a minority-prefer A. Yes. Q. So let's record Dr. believe you said that Africt cohesive behind a second A. That's correct. Q. So can we write the candidate in this election? A. I don't agree to the ataken. I will write down on the write, but I don't believe that candidates in every situation,	already did 12. en Deposition Exhibit No. 13 ition.) on had two seats in it, d that you agreed that Dr. rred candidate in 2015, correct? Graves here. And I an-American voters weren't choice; is that right? nat there was one preferred Would you agree to that? approach that's being ne paper what you ask me to throwing out all of the when African-Americans are avior, is an analytically
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	minority-preferred candidate because of that lack of cohesiveness in the 2015 election, correct? A. That's correct. Q. Okay. So we know I believe your testimony earlier, you described Dr. Graves as a black-preferred candidate? A. Yes. Q. But we just don't know whether or not there's a second black-preferred candidate in this election, or maybe we don't know we think there isn't a second black-preferred candidate in this election. I just want your opinion as a political scientist here. Is there a second black-preferred candidate in this election? A. The concept of a preferred candidate, as I described earlier, is one that, in a multi-winner system, creates exactly the complexities you're pointing out, and I was very clear about those complexities. I believe the report is very clear about the difficulty the difficult analytical choice one has in	(Whereupon, Rodde was marked for identificat Q. So the 2015 electificat Q. So the 2015 electificat Q. So the 2015 electificate Q. So And we established Graves is a minority-prefer A. Yes. Q. So let's record Dr. believe you said that Africate cohesive behind a second A. That's correct. Q. So can we write the candidate in this election? A. I don't agree to the staken. I will write down on the write, but I don't believe that candidates in every situation, incohesive in their voting behavior in the control of the c	already did 12. en Deposition Exhibit No. 13 ition.) on had two seats in it, d that you agreed that Dr. rred candidate in 2015, correct? Graves here. And I an-American voters weren't choice; is that right? nat there was one preferred would you agree to that? approach that's being ne paper what you ask me to throwing out all of the when African-Americans are avior, is an analytically o that approach. It does
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	minority-preferred candidate because of that lack of cohesiveness in the 2015 election, correct? A. That's correct. Q. Okay. So we know I believe your testimony earlier, you described Dr. Graves as a black-preferred candidate? A. Yes. Q. But we just don't know whether or not there's a second black-preferred candidate in this election, or maybe we don't know we think there isn't a second black-preferred candidate in this election. I just want your opinion as a political scientist here. Is there a second black-preferred candidate in this election? A. The concept of a preferred candidate, as I described earlier, is one that, in a multi-winner system, creates exactly the complexities you're pointing out, and I was very clear about those complexities. I believe the report is very clear about the difficulty the difficult analytical choice one has in trying to identify more than one preferred candidate in exactly a situation like 2015. So I think it is, as I	(Whereupon, Roddi was marked for identificat Q. So the 2015 electi right, Dr. Rodden? A. Yes. Q. And we establishe Graves is a minority-prefer A. Yes. Q. So let's record Dr. believe you said that Africa cohesive behind a second A. That's correct. Q. So can we write the candidate in this election? A. I don't agree to the ataken. I will write down on the write, but I don't believe that candidates in every situation, incohesive in their voting behavappropriate choice. I object to	already did 12. en Deposition Exhibit No. 13 cion.) on had two seats in it, d that you agreed that Dr. rred candidate in 2015, correct? Graves here. And I an-American voters weren't choice; is that right? nat there was one preferred Would you agree to that? approach that's being ne paper what you ask me to throwing out all of the when African-Americans are avior, is an analytically o that approach. It does oproach to the data, but I
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	minority-preferred candidate because of that lack of cohesiveness in the 2015 election, correct? A. That's correct. Q. Okay. So we know I believe your testimony earlier, you described Dr. Graves as a black-preferred candidate? A. Yes. Q. But we just don't know whether or not there's a second black-preferred candidate in this election, or maybe we don't know we think there isn't a second black-preferred candidate in this election. I just want your opinion as a political scientist here. Is there a second black-preferred candidate in this election? A. The concept of a preferred candidate, as I described earlier, is one that, in a multi-winner system, creates exactly the complexities you're pointing out, and I was very clear about those complexities. I believe the report is very clear about the difficulty the difficult analytical choice one has in trying to identify more than one preferred candidate in exactly a situation like 2015. So I think it is, as I described, there were two approaches that seemed	(Whereupon, Rodde was marked for identificat Q. So the 2015 electifight, Dr. Rodden? A. Yes. Q. And we established Graves is a minority-prefer A. Yes. Q. So let's record Dr. believe you said that Africa cohesive behind a second A. That's correct. Q. So can we write the candidate in this election? A. I don't agree to the ataken. I will write down on the write, but I don't believe that candidates in every situation, incohesive in their voting behappropriate choice. I object the control of the con	already did 12. en Deposition Exhibit No. 13 cion.) on had two seats in it, d that you agreed that Dr. rred candidate in 2015, correct? Graves here. And I an-American voters weren't choice; is that right? nat there was one preferred Would you agree to that? approach that's being ne paper what you ask me to throwing out all of the when African-Americans are avior, is an analytically o that approach. It does oproach to the data, but I
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	minority-preferred candidate because of that lack of cohesiveness in the 2015 election, correct? A. That's correct. Q. Okay. So we know I believe your testimony earlier, you described Dr. Graves as a black-preferred candidate? A. Yes. Q. But we just don't know whether or not there's a second black-preferred candidate in this election, or maybe we don't know we think there isn't a second black-preferred candidate in this election. I just want your opinion as a political scientist here. Is there a second black-preferred candidate in this election? A. The concept of a preferred candidate, as I described earlier, is one that, in a multi-winner system, creates exactly the complexities you're pointing out, and I was very clear about those complexities. I believe the report is very clear about the difficulty the difficult analytical choice one has in trying to identify more than one preferred candidate in exactly a situation like 2015. So I think it is, as I described, there were two approaches that seemed principled, and the one that I felt handled effectively	(Whereupon, Rodde was marked for identificat Q. So the 2015 electifight, Dr. Rodden? A. Yes. Q. And we established Graves is a minority-prefer A. Yes. Q. So let's record Dr. believe you said that Africt cohesive behind a second A. That's correct. Q. So can we write the candidate in this election? A. I don't agree to the attaken. I will write down on the write, but I don't believe that candidates in every situation, incohesive in their voting behavior appropriate choice. I object that can appropriate agree will write down the number if Q. You agree that Da	already did 12. en Deposition Exhibit No. 13 cion.) on had two seats in it, d that you agreed that Dr. rred candidate in 2015, correct? Graves here. And I an-American voters weren't choice; is that right? nat there was one preferred Would you agree to that? approach that's being ne paper what you ask me to throwing out all of the when African-Americans are avior, is an analytically o that approach. It does oproach to the data, but I that's what you like.

	Page 165		Page 167
1	had the second highest point estimate for black support,	1	who's minority-preferred and who's not than just using the
2	according to you, correct?	2	point estimates when you have significant confidence
3	A. Yes.	3	intervals.
4	Q. So you don't agree that Dameron is not a	4	I guess what I'm saying is this. I profer to
5	minority-preferred candidate?	5	you that if Dameron had a statistically significant level
6	A. It's a double negative there. Can you what	6	of support that was higher than Hines and Person, we might
7	was the question?	7	appropriately describe her as black-preferred, even if
8	Q. Do you agree that Dameron is not a	8	Graves got a lot more votes than Dameron. But under the
9	minority-preferred candidate?	9	facts that we have here where Dameron's support was very
10	A. I've already stated my approach, and I believe	10	low and it's statistically in comparison to Graves and
11	we might end up at an impasse here; that if we look at the	11	it's statistically indistinguishable from two other
12	point estimates and we adopt that approach, then she would	12	candidates, perhaps it's appropriate to call Graves the
13	be that Dameron would be identified as a	13	candidate of choice and to simply say there is no second
14	minority-preferred candidate, so	14	candidate of choice, given these facts. Do you disagree
15	Q. But you agree that as a statistical matter, we	15	with that statement, Dr. Rodden?
16	don't know	16	A. No.
17	A. I understand.	17	Q. Okay. So let's try this, and if, you know, at
18	Q if Dameron has more support from black	18	the end of the day you just don't agree with what I'm
19	voters than Hines and Person, correct?	19	not going to ask you to write something in here that you
20	A. Which is why I identified a second approach to	20	don't agree with, okay? But if you agree that Graves is a
21	the matter, which is to examine only the top seats. That	21	candidate of choice and that there are no other candidates
22	is a principled approach to the question at hand.	22	of choice for African-Americans in 2015, then I would ask
23	Throwing out I mean if we are about to go through a	23	you to write Graves and one underneath the column for
24	process of filling in this sheet and if we will spend the	24	preferred candidates. Would you do that?
25	next half an hour doing that, I'm happy to do it, but I am	25	A. Sure.
	Page 166		Page 168
1	just registering, ahead of time, my objection to the	1	Q. And Graves was successful, right?
2	approach, but we can certainly do it. It does not make	2	A. Yes.
3	sense to take out all of the elections in which there was	3	Q. So we can say one out of one black-preferred
4	a vote split among several candidates, throw them out, not	4	candidates were successful in 2015, using the definitions
5	consider them at all, only focus on elections in which	5	that I'm employing here; is that fair?
6	there is convergence on one candidate of choice.	6	A. Yes.
7	Q. Well, I don't think that's what I was	7	Q. Okay. So I want to talk about white-preferred
8	suggesting. I was just simply suggesting that you agree	8	candidates here, right? Ebert has the highest level of
9	that Graves is a candidate of choice, there's cohesive	9	support amongst white voters; is that correct?
10	support amongst blacks for Graves, correct?	10	A. Yes.
11	A. Yes.	11	Q. And Ebert's level of support falls outside of
12	Q. But there isn't cohesive support around	12	the confidence intervals for white support for all of the
13	Dameron. And we, in fact, don't even know if Dameron got	13	other candidates, correct?
14 15	more black votes than Hines or Person, correct, Dr. Rodden?	14 15	A. It's easier to look at the graph. Yes.
			Q. So we know that there's a statistically
16 17	A. That's correct. Q. So what I was suggesting is, given those	16 17	significant difference between white support for Ebert as opposed to all other candidates, correct?
18		18	A. Yes.
19	facts, it's fair to say we know there's one minority-preferred candidate here, and that was Graves.	19	Would you say that white voters are cohesive
20	That's what I'm asking if would you agree to. Would you	20	behind Ebert?
21	agree to that?	20	A. I would say that white votes were cohesive
22	A. Yes.	22	for Ebert and relatively they were less cohesive for
23	Q. Okay. Because I'm not saying we should throw	23	the remainder of the candidates.
24	away all results where, you know, in elections where	24	Q. So I think you have about 40.1 percent
25	there's a split. I'm just trying to get a closer look at	25	estimated support, white support for Ebert here. Would
-	, , , , , , , , , , , , , , , , , , , ,	1	The state of the s

	Page 169		Page 171
1	you say, given what we've discussed, that he's a	1	2:50 P.M.)
2	white-preferred candidate?	2	Q. Dr. Rodden, I just want to ask you a few more
3	A. Yes.	3	questions about the 2015 election. In Paragraph 48 you
4	Q. Would you record that on the chart.	4	note that Dr. Graves ran a sophisticated campaign in which
5	A. (The witness complied.)	5	she very explicitly encouraged her supporters to engage in
6	Q. Now, I think you estimate the next highest	6	a single-shot voting strategy and cast a single vote for
7	level of white support as going to Dr. Graves at about	7	her, foregoing the use of their second vote. What do you
8	22.9 percent, if I'm rounding; is that right? I'm looking	8	mean when you say that a single-shot strategy is
9	at your spreadsheet.	9	sophisticated?
10	A. Okay. Sure.	10	A. I don't believe I said that the single-shot
11	Q. And the point estimate that you have here for	11	voting strategy was a sophisticated strategy. I believe I
12	Graves in terms of white support, it falls within the	12	said that Ms. Graves ran a sophisticated campaign.
13	confidence interval of what you've estimated in terms of	13	Q. Okay. In your view, are sophisticated
14	white support for Hines; is that correct?	14	campaigns like the ones that Dr. Graves ran, are those
15	A. That's correct.	15	common in the Ferguson-Florissant school district?
16			<u> </u>
17	Q. Given that fact, would you say that we can't	16	A. I don't know. I have very little insight into
	tell, with a degree of statistical certainty, as to	17	the campaign strategies of candidates in the past.
18 19	whether Graves or Hines received a higher level of white	18	Q. Are you aware of other candidates in the
20	support?	19	Ferguson-Florissant school district encouraging a
	A. It is very close, and if we altered the if	20	single-shot voting strategy?
21	we had a slightly different confidence interval, we would	21	A. I believe it is done rather frequently.
22	get a different result, but that is correct.	22	Q. Can you name another candidate in the
23	Q. Would you then say that white voters were not	23	Ferguson-Florissant school district who has employed or
24	cohesive with respect to a second choice in this election?	24	encouraged the single-shot strategy?
25	A. This one is this one is very close, so it's	25	A. Well, one of them is sitting at the table.
	Page 170		Page 172
_	_	1	•
1	on the edge, but if I had to if I had to make this		
2			One of the attorneys was on the Ferguson-Florissant School
2	concept of cohesiveness for the second candidate binary,	2	Board and ran for election and encouraged people to use a
3	which is what you are asking me to do, then I would	2	Board and ran for election and encouraged people to use a single-shot voting strategy in her case. That was through
3 4	which is what you are asking me to do, then I would then that's how I would have to come down.	2 3 4	Board and ran for election and encouraged people to use a single-shot voting strategy in her case. That was through personal communication. I do note that Charles Henson's
3	which is what you are asking me to do, then I would then that's how I would have to come down. Q. You would come down and say that white voters	2 3 4 5	Board and ran for election and encouraged people to use a single-shot voting strategy in her case. That was through personal communication. I do note that Charles Henson's supporters encouraged a single-shot voting strategy in
3 4 5 6	which is what you are asking me to do, then I would then that's how I would have to come down. Q. You would come down and say that white voters were not cohesive behind a second choice here?	2 3 4 5 6	Board and ran for election and encouraged people to use a single-shot voting strategy in her case. That was through personal communication. I do note that Charles Henson's
3 4 5 6 7	which is what you are asking me to do, then I would then that's how I would have to come down. Q. You would come down and say that white voters were not cohesive behind a second choice here? A. If cohesiveness must be a binary category,	2 3 4 5 6 7	Board and ran for election and encouraged people to use a single-shot voting strategy in her case. That was through personal communication. I do note that Charles Henson's supporters encouraged a single-shot voting strategy in that election. Those are just some ones that's just some that I know about. I did not research this. These
3 4 5 6 7 8	which is what you are asking me to do, then I would then that's how I would have to come down. Q. You would come down and say that white voters were not cohesive behind a second choice here?	2 3 4 5 6 7 8	Board and ran for election and encouraged people to use a single-shot voting strategy in her case. That was through personal communication. I do note that Charles Henson's supporters encouraged a single-shot voting strategy in that election. Those are just some ones that's just some that I know about. I did not research this. These are things that came to my attention.
3 4 5 6 7	which is what you are asking me to do, then I would then that's how I would have to come down. Q. You would come down and say that white voters were not cohesive behind a second choice here? A. If cohesiveness must be a binary category,	2 3 4 5 6 7	Board and ran for election and encouraged people to use a single-shot voting strategy in her case. That was through personal communication. I do note that Charles Henson's supporters encouraged a single-shot voting strategy in that election. Those are just some ones that's just some that I know about. I did not research this. These
3 4 5 6 7 8	which is what you are asking me to do, then I would then that's how I would have to come down. Q. You would come down and say that white voters were not cohesive behind a second choice here? A. If cohesiveness must be a binary category, which for the purposes of filling out this chart it	2 3 4 5 6 7 8	Board and ran for election and encouraged people to use a single-shot voting strategy in her case. That was through personal communication. I do note that Charles Henson's supporters encouraged a single-shot voting strategy in that election. Those are just some ones that's just some that I know about. I did not research this. These are things that came to my attention.
3 4 5 6 7 8 9	which is what you are asking me to do, then I would then that's how I would have to come down. Q. You would come down and say that white voters were not cohesive behind a second choice here? A. If cohesiveness must be a binary category, which for the purposes of filling out this chart it apparently must be, then I would agree with that.	2 3 4 5 6 7 8	Board and ran for election and encouraged people to use a single-shot voting strategy in her case. That was through personal communication. I do note that Charles Henson's supporters encouraged a single-shot voting strategy in that election. Those are just some ones that's just some that I know about. I did not research this. These are things that came to my attention. Q. Are there any other candidates in the 2000
3 4 5 6 7 8 9	which is what you are asking me to do, then I would then that's how I would have to come down. Q. You would come down and say that white voters were not cohesive behind a second choice here? A. If cohesiveness must be a binary category, which for the purposes of filling out this chart it apparently must be, then I would agree with that. Q. Okay. So if you don't mind then, I think if	2 3 4 5 6 7 8 9	Board and ran for election and encouraged people to use a single-shot voting strategy in her case. That was through personal communication. I do note that Charles Henson's supporters encouraged a single-shot voting strategy in that election. Those are just some ones that's just some that I know about. I did not research this. These are things that came to my attention. Q. Are there any other candidates in the 2000 through 2015 elections other than Dr. Graves and Mr.
3 4 5 6 7 8 9 10	which is what you are asking me to do, then I would then that's how I would have to come down. Q. You would come down and say that white voters were not cohesive behind a second choice here? A. If cohesiveness must be a binary category, which for the purposes of filling out this chart it apparently must be, then I would agree with that. Q. Okay. So if you don't mind then, I think if there's no cohesive support I'm sorry. If whites are	2 3 4 5 6 7 8 9 10	Board and ran for election and encouraged people to use a single-shot voting strategy in her case. That was through personal communication. I do note that Charles Henson's supporters encouraged a single-shot voting strategy in that election. Those are just some ones that's just some that I know about. I did not research this. These are things that came to my attention. Q. Are there any other candidates in the 2000 through 2015 elections other than Dr. Graves and Mr. Henson that you're aware of who encouraged a single-shot
3 4 5 6 7 8 9 10 11	which is what you are asking me to do, then I would then that's how I would have to come down. Q. You would come down and say that white voters were not cohesive behind a second choice here? A. If cohesiveness must be a binary category, which for the purposes of filling out this chart it apparently must be, then I would agree with that. Q. Okay. So if you don't mind then, I think if there's no cohesive support I'm sorry. If whites are not cohesive behind a second candidate, for purposes of	2 3 4 5 6 7 8 9 10 11 12	Board and ran for election and encouraged people to use a single-shot voting strategy in her case. That was through personal communication. I do note that Charles Henson's supporters encouraged a single-shot voting strategy in that election. Those are just some ones that's just some that I know about. I did not research this. These are things that came to my attention. Q. Are there any other candidates in the 2000 through 2015 elections other than Dr. Graves and Mr. Henson that you're aware of who encouraged a single-shot voting strategy?
3 4 5 6 7 8 9 10 11 12 13	which is what you are asking me to do, then I would then that's how I would have to come down. Q. You would come down and say that white voters were not cohesive behind a second choice here? A. If cohesiveness must be a binary category, which for the purposes of filling out this chart it apparently must be, then I would agree with that. Q. Okay. So if you don't mind then, I think if there's no cohesive support I'm sorry. If whites are not cohesive behind a second candidate, for purposes of this chart, I think it makes sense to say that there's one	2 3 4 5 6 7 8 9 10 11 12 13	Board and ran for election and encouraged people to use a single-shot voting strategy in her case. That was through personal communication. I do note that Charles Henson's supporters encouraged a single-shot voting strategy in that election. Those are just some ones that's just some that I know about. I did not research this. These are things that came to my attention. Q. Are there any other candidates in the 2000 through 2015 elections other than Dr. Graves and Mr. Henson that you're aware of who encouraged a single-shot voting strategy? A. If they are smart, they all would have, but I
3 4 5 6 7 8 9 10 11 12 13 14	which is what you are asking me to do, then I would then that's how I would have to come down. Q. You would come down and say that white voters were not cohesive behind a second choice here? A. If cohesiveness must be a binary category, which for the purposes of filling out this chart it apparently must be, then I would agree with that. Q. Okay. So if you don't mind then, I think if there's no cohesive support I'm sorry. If whites are not cohesive behind a second candidate, for purposes of this chart, I think it makes sense to say that there's one white-preferred candidate, Ebert, and that that candidate	2 3 4 5 6 7 8 9 10 11 12 13	Board and ran for election and encouraged people to use a single-shot voting strategy in her case. That was through personal communication. I do note that Charles Henson's supporters encouraged a single-shot voting strategy in that election. Those are just some ones that's just some that I know about. I did not research this. These are things that came to my attention. Q. Are there any other candidates in the 2000 through 2015 elections other than Dr. Graves and Mr. Henson that you're aware of who encouraged a single-shot voting strategy? A. If they are smart, they all would have, but I don't know I have not had a chance to ask them. This
3 4 5 6 7 8 9 10 11 12 13 14 15	which is what you are asking me to do, then I would then that's how I would have to come down. Q. You would come down and say that white voters were not cohesive behind a second choice here? A. If cohesiveness must be a binary category, which for the purposes of filling out this chart it apparently must be, then I would agree with that. Q. Okay. So if you don't mind then, I think if there's no cohesive support I'm sorry. If whites are not cohesive behind a second candidate, for purposes of this chart, I think it makes sense to say that there's one white-preferred candidate, Ebert, and that that candidate was successful. And you've already filled it in, okay.	2 3 4 5 6 7 8 9 10 11 12 13 14	Board and ran for election and encouraged people to use a single-shot voting strategy in her case. That was through personal communication. I do note that Charles Henson's supporters encouraged a single-shot voting strategy in that election. Those are just some ones that's just some that I know about. I did not research this. These are things that came to my attention. Q. Are there any other candidates in the 2000 through 2015 elections other than Dr. Graves and Mr. Henson that you're aware of who encouraged a single-shot voting strategy? A. If they are smart, they all would have, but I don't know I have not had a chance to ask them. This is not something I've been able to do, so I don't know and
3 4 5 6 7 8 9 10 11 12 13 14 15 16	which is what you are asking me to do, then I would then that's how I would have to come down. Q. You would come down and say that white voters were not cohesive behind a second choice here? A. If cohesiveness must be a binary category, which for the purposes of filling out this chart it apparently must be, then I would agree with that. Q. Okay. So if you don't mind then, I think if there's no cohesive support I'm sorry. If whites are not cohesive behind a second candidate, for purposes of this chart, I think it makes sense to say that there's one white-preferred candidate, Ebert, and that that candidate was successful. And you've already filled it in, okay. A. So it looks like we have maybe a half an hour	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	Board and ran for election and encouraged people to use a single-shot voting strategy in her case. That was through personal communication. I do note that Charles Henson's supporters encouraged a single-shot voting strategy in that election. Those are just some ones that's just some that I know about. I did not research this. These are things that came to my attention. Q. Are there any other candidates in the 2000 through 2015 elections other than Dr. Graves and Mr. Henson that you're aware of who encouraged a single-shot voting strategy? A. If they are smart, they all would have, but I don't know I have not had a chance to ask them. This is not something I've been able to do, so I don't know and I don't have a full sample of all of their campaign
3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	which is what you are asking me to do, then I would then that's how I would have to come down. Q. You would come down and say that white voters were not cohesive behind a second choice here? A. If cohesiveness must be a binary category, which for the purposes of filling out this chart it apparently must be, then I would agree with that. Q. Okay. So if you don't mind then, I think if there's no cohesive support I'm sorry. If whites are not cohesive behind a second candidate, for purposes of this chart, I think it makes sense to say that there's one white-preferred candidate, Ebert, and that that candidate was successful. And you've already filled it in, okay. A. So it looks like we have maybe a half an hour ahead of us here, and I really have to use the restroom.	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	Board and ran for election and encouraged people to use a single-shot voting strategy in her case. That was through personal communication. I do note that Charles Henson's supporters encouraged a single-shot voting strategy in that election. Those are just some ones that's just some that I know about. I did not research this. These are things that came to my attention. Q. Are there any other candidates in the 2000 through 2015 elections other than Dr. Graves and Mr. Henson that you're aware of who encouraged a single-shot voting strategy? A. If they are smart, they all would have, but I don't know I have not had a chance to ask them. This is not something I've been able to do, so I don't know and I don't have a full sample of all of their campaign materials, so I don't know.
3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	which is what you are asking me to do, then I would then that's how I would have to come down. Q. You would come down and say that white voters were not cohesive behind a second choice here? A. If cohesiveness must be a binary category, which for the purposes of filling out this chart it apparently must be, then I would agree with that. Q. Okay. So if you don't mind then, I think if there's no cohesive support I'm sorry. If whites are not cohesive behind a second candidate, for purposes of this chart, I think it makes sense to say that there's one white-preferred candidate, Ebert, and that that candidate was successful. And you've already filled it in, okay. A. So it looks like we have maybe a half an hour ahead of us here, and I really have to use the restroom. Q. Sure.	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	Board and ran for election and encouraged people to use a single-shot voting strategy in her case. That was through personal communication. I do note that Charles Henson's supporters encouraged a single-shot voting strategy in that election. Those are just some ones that's just some that I know about. I did not research this. These are things that came to my attention. Q. Are there any other candidates in the 2000 through 2015 elections other than Dr. Graves and Mr. Henson that you're aware of who encouraged a single-shot voting strategy? A. If they are smart, they all would have, but I don't know I have not had a chance to ask them. This is not something I've been able to do, so I don't know and I don't have a full sample of all of their campaign materials, so I don't know. Q. You don't know one way or the other whether or
3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	which is what you are asking me to do, then I would then that's how I would have to come down. Q. You would come down and say that white voters were not cohesive behind a second choice here? A. If cohesiveness must be a binary category, which for the purposes of filling out this chart it apparently must be, then I would agree with that. Q. Okay. So if you don't mind then, I think if there's no cohesive support I'm sorry. If whites are not cohesive behind a second candidate, for purposes of this chart, I think it makes sense to say that there's one white-preferred candidate, Ebert, and that that candidate was successful. And you've already filled it in, okay. A. So it looks like we have maybe a half an hour ahead of us here, and I really have to use the restroom. Q. Sure. A. I know usually you don't ask that during the	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	Board and ran for election and encouraged people to use a single-shot voting strategy in her case. That was through personal communication. I do note that Charles Henson's supporters encouraged a single-shot voting strategy in that election. Those are just some ones that's just some that I know about. I did not research this. These are things that came to my attention. Q. Are there any other candidates in the 2000 through 2015 elections other than Dr. Graves and Mr. Henson that you're aware of who encouraged a single-shot voting strategy? A. If they are smart, they all would have, but I don't know I have not had a chance to ask them. This is not something I've been able to do, so I don't know and I don't have a full sample of all of their campaign materials, so I don't know. Q. You don't know one way or the other whether or not single-shot voting is an unusual circumstance, or the
3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	which is what you are asking me to do, then I would then that's how I would have to come down. Q. You would come down and say that white voters were not cohesive behind a second choice here? A. If cohesiveness must be a binary category, which for the purposes of filling out this chart it apparently must be, then I would agree with that. Q. Okay. So if you don't mind then, I think if there's no cohesive support I'm sorry. If whites are not cohesive behind a second candidate, for purposes of this chart, I think it makes sense to say that there's one white-preferred candidate, Ebert, and that that candidate was successful. And you've already filled it in, okay. A. So it looks like we have maybe a half an hour ahead of us here, and I really have to use the restroom. Q. Sure. A. I know usually you don't ask that during the middle of a line of questioning.	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	Board and ran for election and encouraged people to use a single-shot voting strategy in her case. That was through personal communication. I do note that Charles Henson's supporters encouraged a single-shot voting strategy in that election. Those are just some ones that's just some that I know about. I did not research this. These are things that came to my attention. Q. Are there any other candidates in the 2000 through 2015 elections other than Dr. Graves and Mr. Henson that you're aware of who encouraged a single-shot voting strategy? A. If they are smart, they all would have, but I don't know I have not had a chance to ask them. This is not something I've been able to do, so I don't know and I don't have a full sample of all of their campaign materials, so I don't know. Q. You don't know one way or the other whether or not single-shot voting is an unusual
3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	which is what you are asking me to do, then I would then that's how I would have to come down. Q. You would come down and say that white voters were not cohesive behind a second choice here? A. If cohesiveness must be a binary category, which for the purposes of filling out this chart it apparently must be, then I would agree with that. Q. Okay. So if you don't mind then, I think if there's no cohesive support I'm sorry. If whites are not cohesive behind a second candidate, for purposes of this chart, I think it makes sense to say that there's one white-preferred candidate, Ebert, and that that candidate was successful. And you've already filled it in, okay. A. So it looks like we have maybe a half an hour ahead of us here, and I really have to use the restroom. Q. Sure. A. I know usually you don't ask that during the middle of a line of questioning. Q. No, no. I didn't pose a question to you, so	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	Board and ran for election and encouraged people to use a single-shot voting strategy in her case. That was through personal communication. I do note that Charles Henson's supporters encouraged a single-shot voting strategy in that election. Those are just some ones that's just some that I know about. I did not research this. These are things that came to my attention. Q. Are there any other candidates in the 2000 through 2015 elections other than Dr. Graves and Mr. Henson that you're aware of who encouraged a single-shot voting strategy? A. If they are smart, they all would have, but I don't know I have not had a chance to ask them. This is not something I've been able to do, so I don't know and I don't have a full sample of all of their campaign materials, so I don't know. Q. You don't know one way or the other whether or not single-shot voting is an unusual circumstance, or the encouragement of single-shot voting is an unusual circumstance in Ferguson-Florissant school district
3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	which is what you are asking me to do, then I would then that's how I would have to come down. Q. You would come down and say that white voters were not cohesive behind a second choice here? A. If cohesiveness must be a binary category, which for the purposes of filling out this chart it apparently must be, then I would agree with that. Q. Okay. So if you don't mind then, I think if there's no cohesive support I'm sorry. If whites are not cohesive behind a second candidate, for purposes of this chart, I think it makes sense to say that there's one white-preferred candidate, Ebert, and that that candidate was successful. And you've already filled it in, okay. A. So it looks like we have maybe a half an hour ahead of us here, and I really have to use the restroom. Q. Sure. A. I know usually you don't ask that during the middle of a line of questioning. Q. No, no. I didn't pose a question to you, so now is a perfect time to use the restroom if you like.	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	Board and ran for election and encouraged people to use a single-shot voting strategy in her case. That was through personal communication. I do note that Charles Henson's supporters encouraged a single-shot voting strategy in that election. Those are just some ones that's just some that I know about. I did not research this. These are things that came to my attention. Q. Are there any other candidates in the 2000 through 2015 elections other than Dr. Graves and Mr. Henson that you're aware of who encouraged a single-shot voting strategy? A. If they are smart, they all would have, but I don't know I have not had a chance to ask them. This is not something I've been able to do, so I don't know and I don't have a full sample of all of their campaign materials, so I don't know. Q. You don't know one way or the other whether or not single-shot voting is an unusual circumstance, or the encouragement of single-shot voting is an unusual circumstance in Ferguson-Florissant school district elections?
3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	which is what you are asking me to do, then I would then that's how I would have to come down. Q. You would come down and say that white voters were not cohesive behind a second choice here? A. If cohesiveness must be a binary category, which for the purposes of filling out this chart it apparently must be, then I would agree with that. Q. Okay. So if you don't mind then, I think if there's no cohesive support I'm sorry. If whites are not cohesive behind a second candidate, for purposes of this chart, I think it makes sense to say that there's one white-preferred candidate, Ebert, and that that candidate was successful. And you've already filled it in, okay. A. So it looks like we have maybe a half an hour ahead of us here, and I really have to use the restroom. Q. Sure. A. I know usually you don't ask that during the middle of a line of questioning. Q. No, no. I didn't pose a question to you, so now is a perfect time to use the restroom if you like. A. Okay. Thank you.	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	Board and ran for election and encouraged people to use a single-shot voting strategy in her case. That was through personal communication. I do note that Charles Henson's supporters encouraged a single-shot voting strategy in that election. Those are just some ones that's just some that I know about. I did not research this. These are things that came to my attention. Q. Are there any other candidates in the 2000 through 2015 elections other than Dr. Graves and Mr. Henson that you're aware of who encouraged a single-shot voting strategy? A. If they are smart, they all would have, but I don't know I have not had a chance to ask them. This is not something I've been able to do, so I don't know and I don't have a full sample of all of their campaign materials, so I don't know. Q. You don't know one way or the other whether or not single-shot voting is an unusual circumstance, or the encouragement of single-shot voting is an unusual circumstance in Ferguson-Florissant school district elections? A. I do not, but I don't have reason to believe

	Page 173		Page 175
1	A. That's correct.	1	A. Yes.
2	Q. Let's talk about the 2000 election. Do you	2	Q. Now, the confidence interval for Hirsch's
3	have any reason to think that single-shot voting was	3	level of black support, the level of the point estimate
4	encouraged as a strategy in the 2000 election in the same	4	for Smith's support falls within the confidence interval
5	way that it was in the 2015 election?	5	for Hirsch's level of black support, correct?
6	A. I'm sorry. Which election?	6	A. Yes.
7	Q. 2000, which is described in Paragraph 68 of	7	Q. So as a statistical matter, we don't know
8	your report.	8	whether or not Hirsch or Smith was the candidate who
9	A. I do not have information about I just have	9	received the second most support from black voters,
10	no special information about strategies used there.	10	correct?
11	· · ·	11	A. Correct.
12	Q. Okay. Now, we established well, I don't	12	
	know if we established it, but when we looked at your		Q. So knowing that, who do you think it's fair to
13	spreadsheets, Rodden Exhibit 11, for the 2000 election the	13	describe as a black-preferred candidate in the 2000
14	candidate with the highest estimated level of black	14	election?
15	support as estimated by you is Thomas with about 34	15	A. There are two approaches to this question.
16	percent of black votes; is that correct?	16	The first one just takes the top two point estimates. The
17	A. So you said 2011?	17	second approach focuses on only the top vote recipient.
18	Q. 2000.	18	Q. Couldn't a third approach, Dr. Rodden, be to
19	A. Oh, we're back at 2000.	19	take the candidates who have statistically significant
20	Q. Yes. I just want to jump to the beginning.	20	higher levels of support, so in this case Thomas has a
21	We did the end. Let's do the beginning.	21	higher level of support, clearly, than the other
22	A. Yes. I'm sorry. You're asking me about the	22	candidates amongst black voters, and couldn't we use
23	estimated African-American support	23	statistical significance as a decision rule here in
24	Q. Uh-huh.	24	assessing who's a black-preferred candidate of choice and
25	A for Gwen Thomas?	25	say Thomas is a black-preferred candidate of choice, but I
	Decc 174		
	Page 174		Page 176
1	-	1	
1 2	Q. Uh-huh. About 34 percent? A. Yes.	1 2	Page 176 can't really say if Hirsch or Smith are because their levels of support amongst black voters are statistically
	Q. Uh-huh. About 34 percent?		can't really say if Hirsch or Smith are because their levels of support amongst black voters are statistically
2	Q. Uh-huh. About 34 percent? A. Yes.	2	can't really say if Hirsch or Smith are because their levels of support amongst black voters are statistically indistinguishable; wouldn't that be another objective
2	 Q. Uh-huh. About 34 percent? A. Yes. Q. And this is a three-seat wait a minute. A. No, I believe this was a two-seat. 	2 3	can't really say if Hirsch or Smith are because their levels of support amongst black voters are statistically
2 3 4	 Q. Uh-huh. About 34 percent? A. Yes. Q. And this is a three-seat wait a minute. A. No, I believe this was a two-seat. Q. Two-seat election, right. My apologies. 	2 3 4	can't really say if Hirsch or Smith are because their levels of support amongst black voters are statistically indistinguishable; wouldn't that be another objective decision rule that we could employ here? A. That decision rule would lead to the following
2 3 4 5 6	 Q. Uh-huh. About 34 percent? A. Yes. Q. And this is a three-seat wait a minute. A. No, I believe this was a two-seat. Q. Two-seat election, right. My apologies. Let's talk about the second candidate, or the candidate 	2 3 4 5 6	can't really say if Hirsch or Smith are because their levels of support amongst black voters are statistically indistinguishable; wouldn't that be another objective decision rule that we could employ here? A. That decision rule would lead to the following silliness. If there were five elections in a row, and in
2 3 4 5 6 7	 Q. Uh-huh. About 34 percent? A. Yes. Q. And this is a three-seat wait a minute. A. No, I believe this was a two-seat. Q. Two-seat election, right. My apologies. Let's talk about the second candidate, or the candidate you estimate as having the second highest level of black 	2 3 4 5 6 7	can't really say if Hirsch or Smith are because their levels of support amongst black voters are statistically indistinguishable; wouldn't that be another objective decision rule that we could employ here? A. That decision rule would lead to the following silliness. If there were five elections in a row, and in four of those elections all the votes were split so that
2 3 4 5 6 7 8	 Q. Uh-huh. About 34 percent? A. Yes. Q. And this is a three-seat wait a minute. A. No, I believe this was a two-seat. Q. Two-seat election, right. My apologies. Let's talk about the second candidate, or the candidate you estimate as having the second highest level of black support, Hirsch, at about 18.7 percent of black votes; is 	2 3 4 5 6 7 8	can't really say if Hirsch or Smith are because their levels of support amongst black voters are statistically indistinguishable; wouldn't that be another objective decision rule that we could employ here? A. That decision rule would lead to the following silliness. If there were five elections in a row, and in four of those elections all the votes were split so that there were overlapping confidence intervals everywhere,
2 3 4 5 6 7 8	 Q. Uh-huh. About 34 percent? A. Yes. Q. And this is a three-seat wait a minute. A. No, I believe this was a two-seat. Q. Two-seat election, right. My apologies. Let's talk about the second candidate, or the candidate you estimate as having the second highest level of black support, Hirsch, at about 18.7 percent of black votes; is that right? 	2 3 4 5 6 7 8	can't really say if Hirsch or Smith are because their levels of support amongst black voters are statistically indistinguishable; wouldn't that be another objective decision rule that we could employ here? A. That decision rule would lead to the following silliness. If there were five elections in a row, and in four of those elections all the votes were split so that there were overlapping confidence intervals everywhere, and in the fifth election there was one very good
2 3 4 5 6 7 8 9	 Q. Uh-huh. About 34 percent? A. Yes. Q. And this is a three-seat wait a minute. A. No, I believe this was a two-seat. Q. Two-seat election, right. My apologies. Let's talk about the second candidate, or the candidate you estimate as having the second highest level of black support, Hirsch, at about 18.7 percent of black votes; is that right? A. Uh-huh. Yes. 	2 3 4 5 6 7 8	can't really say if Hirsch or Smith are because their levels of support amongst black voters are statistically indistinguishable; wouldn't that be another objective decision rule that we could employ here? A. That decision rule would lead to the following silliness. If there were five elections in a row, and in four of those elections all the votes were split so that there were overlapping confidence intervals everywhere, and in the fifth election there was one very good candidate who ran away with the race among among one
2 3 4 5 6 7 8 9 10	 Q. Uh-huh. About 34 percent? A. Yes. Q. And this is a three-seat wait a minute. A. No, I believe this was a two-seat. Q. Two-seat election, right. My apologies. Let's talk about the second candidate, or the candidate you estimate as having the second highest level of black support, Hirsch, at about 18.7 percent of black votes; is that right? A. Uh-huh. Yes. Q. Now, Thomas' support among black votes you 	2 3 4 5 6 7 8 9 10	can't really say if Hirsch or Smith are because their levels of support amongst black voters are statistically indistinguishable; wouldn't that be another objective decision rule that we could employ here? A. That decision rule would lead to the following silliness. If there were five elections in a row, and in four of those elections all the votes were split so that there were overlapping confidence intervals everywhere, and in the fifth election there was one very good candidate who ran away with the race among among one racial group and another candidate who did very well among
2 3 4 5 6 7 8 9 10 11	 Q. Uh-huh. About 34 percent? A. Yes. Q. And this is a three-seat wait a minute. A. No, I believe this was a two-seat. Q. Two-seat election, right. My apologies. Let's talk about the second candidate, or the candidate you estimate as having the second highest level of black support, Hirsch, at about 18.7 percent of black votes; is that right? A. Uh-huh. Yes. Q. Now, Thomas' support among black votes you estimate to be about 15 percentage points higher than 	2 3 4 5 6 7 8 9 10 11	can't really say if Hirsch or Smith are because their levels of support amongst black voters are statistically indistinguishable; wouldn't that be another objective decision rule that we could employ here? A. That decision rule would lead to the following silliness. If there were five elections in a row, and in four of those elections all the votes were split so that there were overlapping confidence intervals everywhere, and in the fifth election there was one very good candidate who ran away with the race among among one racial group and another candidate who did very well among another racial group, and one of them received one more
2 3 4 5 6 7 8 9 10 11 12	 Q. Uh-huh. About 34 percent? A. Yes. Q. And this is a three-seat wait a minute. A. No, I believe this was a two-seat. Q. Two-seat election, right. My apologies. Let's talk about the second candidate, or the candidate you estimate as having the second highest level of black support, Hirsch, at about 18.7 percent of black votes; is that right? A. Uh-huh. Yes. Q. Now, Thomas' support among black votes you estimate to be about 15 percentage points higher than Hirsch's, correct? 	2 3 4 5 6 7 8 9 10 11 12	can't really say if Hirsch or Smith are because their levels of support amongst black voters are statistically indistinguishable; wouldn't that be another objective decision rule that we could employ here? A. That decision rule would lead to the following silliness. If there were five elections in a row, and in four of those elections all the votes were split so that there were overlapping confidence intervals everywhere, and in the fifth election there was one very good candidate who ran away with the race among among one racial group and another candidate who did very well among another racial group, and one of them received one more vote than the other, then we would look at those five
2 3 4 5 6 7 8 9 10 11 12 13	 Q. Uh-huh. About 34 percent? A. Yes. Q. And this is a three-seat wait a minute. A. No, I believe this was a two-seat. Q. Two-seat election, right. My apologies. Let's talk about the second candidate, or the candidate you estimate as having the second highest level of black support, Hirsch, at about 18.7 percent of black votes; is that right? A. Uh-huh. Yes. Q. Now, Thomas' support among black votes you estimate to be about 15 percentage points higher than Hirsch's, correct? A. Yes. 	2 3 4 5 6 7 8 9 10 11 12 13	can't really say if Hirsch or Smith are because their levels of support amongst black voters are statistically indistinguishable; wouldn't that be another objective decision rule that we could employ here? A. That decision rule would lead to the following silliness. If there were five elections in a row, and in four of those elections all the votes were split so that there were overlapping confidence intervals everywhere, and in the fifth election there was one very good candidate who ran away with the race among among one racial group and another candidate who did very well among another racial group, and one of them received one more vote than the other, then we would look at those five elections, we would throw out the first four and we would
2 3 4 5 6 7 8 9 10 11 12 13 14	 Q. Uh-huh. About 34 percent? A. Yes. Q. And this is a three-seat wait a minute. A. No, I believe this was a two-seat. Q. Two-seat election, right. My apologies. Let's talk about the second candidate, or the candidate you estimate as having the second highest level of black support, Hirsch, at about 18.7 percent of black votes; is that right? A. Uh-huh. Yes. Q. Now, Thomas' support among black votes you estimate to be about 15 percentage points higher than Hirsch's, correct? A. Yes. Q. And in this case that's almost double the 	2 3 4 5 6 7 8 9 10 11 12 13 14	can't really say if Hirsch or Smith are because their levels of support amongst black voters are statistically indistinguishable; wouldn't that be another objective decision rule that we could employ here? A. That decision rule would lead to the following silliness. If there were five elections in a row, and in four of those elections all the votes were split so that there were overlapping confidence intervals everywhere, and in the fifth election there was one very good candidate who ran away with the race among among one racial group and another candidate who did very well among another racial group, and one of them received one more vote than the other, then we would look at those five elections, we would throw out the first four and we would be focused only on that one election and we would say to
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	 Q. Uh-huh. About 34 percent? A. Yes. Q. And this is a three-seat wait a minute. A. No, I believe this was a two-seat. Q. Two-seat election, right. My apologies. Let's talk about the second candidate, or the candidate you estimate as having the second highest level of black support, Hirsch, at about 18.7 percent of black votes; is that right? A. Uh-huh. Yes. Q. Now, Thomas' support among black votes you estimate to be about 15 percentage points higher than Hirsch's, correct? A. Yes. Q. And in this case that's almost double the level of support that Hirsch got from black voters; is 	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	can't really say if Hirsch or Smith are because their levels of support amongst black voters are statistically indistinguishable; wouldn't that be another objective decision rule that we could employ here? A. That decision rule would lead to the following silliness. If there were five elections in a row, and in four of those elections all the votes were split so that there were overlapping confidence intervals everywhere, and in the fifth election there was one very good candidate who ran away with the race among among one racial group and another candidate who did very well among another racial group, and one of them received one more vote than the other, then we would look at those five elections, we would throw out the first four and we would be focused only on that one election and we would say to the Court that this is a valid VRA case in which the
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	 Q. Uh-huh. About 34 percent? A. Yes. Q. And this is a three-seat wait a minute. A. No, I believe this was a two-seat. Q. Two-seat election, right. My apologies. Let's talk about the second candidate, or the candidate you estimate as having the second highest level of black support, Hirsch, at about 18.7 percent of black votes; is that right? A. Uh-huh. Yes. Q. Now, Thomas' support among black votes you estimate to be about 15 percentage points higher than Hirsch's, correct? A. Yes. Q. And in this case that's almost double the level of support that Hirsch got from black voters; is that right? 	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	can't really say if Hirsch or Smith are because their levels of support amongst black voters are statistically indistinguishable; wouldn't that be another objective decision rule that we could employ here? A. That decision rule would lead to the following silliness. If there were five elections in a row, and in four of those elections all the votes were split so that there were overlapping confidence intervals everywhere, and in the fifth election there was one very good candidate who ran away with the race among among one racial group and another candidate who did very well among another racial group, and one of them received one more vote than the other, then we would look at those five elections, we would throw out the first four and we would be focused only on that one election and we would say to the Court that this is a valid VRA case in which the preferred candidate of the minority always wins. That is
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	 Q. Uh-huh. About 34 percent? A. Yes. Q. And this is a three-seat wait a minute. A. No, I believe this was a two-seat. Q. Two-seat election, right. My apologies. Let's talk about the second candidate, or the candidate you estimate as having the second highest level of black support, Hirsch, at about 18.7 percent of black votes; is that right? A. Uh-huh. Yes. Q. Now, Thomas' support among black votes you estimate to be about 15 percentage points higher than Hirsch's, correct? A. Yes. Q. And in this case that's almost double the level of support that Hirsch got from black voters; is that right? A. Yes. 	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	can't really say if Hirsch or Smith are because their levels of support amongst black voters are statistically indistinguishable; wouldn't that be another objective decision rule that we could employ here? A. That decision rule would lead to the following silliness. If there were five elections in a row, and in four of those elections all the votes were split so that there were overlapping confidence intervals everywhere, and in the fifth election there was one very good candidate who ran away with the race among among one racial group and another candidate who did very well among another racial group, and one of them received one more vote than the other, then we would look at those five elections, we would throw out the first four and we would be focused only on that one election and we would say to the Court that this is a valid VRA case in which the preferred candidate of the minority always wins. That is the same logic that we would be engaging in if we were to
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	 Q. Uh-huh. About 34 percent? A. Yes. Q. And this is a three-seat wait a minute. A. No, I believe this was a two-seat. Q. Two-seat election, right. My apologies. Let's talk about the second candidate, or the candidate you estimate as having the second highest level of black support, Hirsch, at about 18.7 percent of black votes; is that right? A. Uh-huh. Yes. Q. Now, Thomas' support among black votes you estimate to be about 15 percentage points higher than Hirsch's, correct? A. Yes. Q. And in this case that's almost double the level of support that Hirsch got from black voters; is that right? A. Yes. Q. Would you think it's fair to say that Thomas 	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	can't really say if Hirsch or Smith are because their levels of support amongst black voters are statistically indistinguishable; wouldn't that be another objective decision rule that we could employ here? A. That decision rule would lead to the following silliness. If there were five elections in a row, and in four of those elections all the votes were split so that there were overlapping confidence intervals everywhere, and in the fifth election there was one very good candidate who ran away with the race among among one racial group and another candidate who did very well among another racial group, and one of them received one more vote than the other, then we would look at those five elections, we would throw out the first four and we would be focused only on that one election and we would say to the Court that this is a valid VRA case in which the preferred candidate of the minority always wins. That is the same logic that we would be engaging in if we were to adopt that approach to these first and second seats.
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	 Q. Uh-huh. About 34 percent? A. Yes. Q. And this is a three-seat wait a minute. A. No, I believe this was a two-seat. Q. Two-seat election, right. My apologies. Let's talk about the second candidate, or the candidate you estimate as having the second highest level of black support, Hirsch, at about 18.7 percent of black votes; is that right? A. Uh-huh. Yes. Q. Now, Thomas' support among black votes you estimate to be about 15 percentage points higher than Hirsch's, correct? A. Yes. Q. And in this case that's almost double the level of support that Hirsch got from black voters; is that right? A. Yes. Q. Would you think it's fair to say that Thomas got substantially more votes among blacks than Hirsch? 	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	can't really say if Hirsch or Smith are because their levels of support amongst black voters are statistically indistinguishable; wouldn't that be another objective decision rule that we could employ here? A. That decision rule would lead to the following silliness. If there were five elections in a row, and in four of those elections all the votes were split so that there were overlapping confidence intervals everywhere, and in the fifth election there was one very good candidate who ran away with the race among among one racial group and another candidate who did very well among another racial group, and one of them received one more vote than the other, then we would look at those five elections, we would throw out the first four and we would be focused only on that one election and we would say to the Court that this is a valid VRA case in which the preferred candidate of the minority always wins. That is the same logic that we would be engaging in if we were to adopt that approach to these first and second seats. Q. Well, in that case wouldn't we then just say
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	 Q. Uh-huh. About 34 percent? A. Yes. Q. And this is a three-seat wait a minute. A. No, I believe this was a two-seat. Q. Two-seat election, right. My apologies. Let's talk about the second candidate, or the candidate you estimate as having the second highest level of black support, Hirsch, at about 18.7 percent of black votes; is that right? A. Uh-huh. Yes. Q. Now, Thomas' support among black votes you estimate to be about 15 percentage points higher than Hirsch's, correct? A. Yes. Q. And in this case that's almost double the level of support that Hirsch got from black voters; is that right? A. Yes. Q. Would you think it's fair to say that Thomas got substantially more votes among blacks than Hirsch? A. Yes. 	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	can't really say if Hirsch or Smith are because their levels of support amongst black voters are statistically indistinguishable; wouldn't that be another objective decision rule that we could employ here? A. That decision rule would lead to the following silliness. If there were five elections in a row, and in four of those elections all the votes were split so that there were overlapping confidence intervals everywhere, and in the fifth election there was one very good candidate who ran away with the race among among one racial group and another candidate who did very well among another racial group, and one of them received one more vote than the other, then we would look at those five elections, we would throw out the first four and we would be focused only on that one election and we would say to the Court that this is a valid VRA case in which the preferred candidate of the minority always wins. That is the same logic that we would be engaging in if we were to adopt that approach to these first and second seats. Q. Well, in that case wouldn't we then just say that black voters weren't cohesive in the first four
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	 Q. Uh-huh. About 34 percent? A. Yes. Q. And this is a three-seat wait a minute. A. No, I believe this was a two-seat. Q. Two-seat election, right. My apologies. Let's talk about the second candidate, or the candidate you estimate as having the second highest level of black support, Hirsch, at about 18.7 percent of black votes; is that right? A. Uh-huh. Yes. Q. Now, Thomas' support among black votes you estimate to be about 15 percentage points higher than Hirsch's, correct? A. Yes. Q. And in this case that's almost double the level of support that Hirsch got from black voters; is that right? A. Yes. Q. Would you think it's fair to say that Thomas got substantially more votes among blacks than Hirsch? A. Yes. Q. Now, the candidate you estimate as having the 	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	can't really say if Hirsch or Smith are because their levels of support amongst black voters are statistically indistinguishable; wouldn't that be another objective decision rule that we could employ here? A. That decision rule would lead to the following silliness. If there were five elections in a row, and in four of those elections all the votes were split so that there were overlapping confidence intervals everywhere, and in the fifth election there was one very good candidate who ran away with the race among among one racial group and another candidate who did very well among another racial group, and one of them received one more vote than the other, then we would look at those five elections, we would throw out the first four and we would be focused only on that one election and we would say to the Court that this is a valid VRA case in which the preferred candidate of the minority always wins. That is the same logic that we would be engaging in if we were to adopt that approach to these first and second seats. Q. Well, in that case wouldn't we then just say that black voters weren't cohesive in the first four elections, and the fifth time they were cohesive and they
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	 Q. Uh-huh. About 34 percent? A. Yes. Q. And this is a three-seat wait a minute. A. No, I believe this was a two-seat. Q. Two-seat election, right. My apologies. Let's talk about the second candidate, or the candidate you estimate as having the second highest level of black support, Hirsch, at about 18.7 percent of black votes; is that right? A. Uh-huh. Yes. Q. Now, Thomas' support among black votes you estimate to be about 15 percentage points higher than Hirsch's, correct? A. Yes. Q. And in this case that's almost double the level of support that Hirsch got from black voters; is that right? A. Yes. Q. Would you think it's fair to say that Thomas got substantially more votes among blacks than Hirsch? A. Yes. Q. Now, the candidate you estimate as having the third highest level of support among black voters was 	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	can't really say if Hirsch or Smith are because their levels of support amongst black voters are statistically indistinguishable; wouldn't that be another objective decision rule that we could employ here? A. That decision rule would lead to the following silliness. If there were five elections in a row, and in four of those elections all the votes were split so that there were overlapping confidence intervals everywhere, and in the fifth election there was one very good candidate who ran away with the race among among one racial group and another candidate who did very well among another racial group, and one of them received one more vote than the other, then we would look at those five elections, we would throw out the first four and we would be focused only on that one election and we would say to the Court that this is a valid VRA case in which the preferred candidate of the minority always wins. That is the same logic that we would be engaging in if we were to adopt that approach to these first and second seats. Q. Well, in that case wouldn't we then just say that black voters weren't cohesive in the first four elections, and the fifth time they were cohesive and they elected a candidate? I mean wouldn't wouldn't that
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	 Q. Uh-huh. About 34 percent? A. Yes. Q. And this is a three-seat wait a minute. A. No, I believe this was a two-seat. Q. Two-seat election, right. My apologies. Let's talk about the second candidate, or the candidate you estimate as having the second highest level of black support, Hirsch, at about 18.7 percent of black votes; is that right? A. Uh-huh. Yes. Q. Now, Thomas' support among black votes you estimate to be about 15 percentage points higher than Hirsch's, correct? A. Yes. Q. And in this case that's almost double the level of support that Hirsch got from black voters; is that right? A. Yes. Q. Would you think it's fair to say that Thomas got substantially more votes among blacks than Hirsch? A. Yes. Q. Now, the candidate you estimate as having the 	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	can't really say if Hirsch or Smith are because their levels of support amongst black voters are statistically indistinguishable; wouldn't that be another objective decision rule that we could employ here? A. That decision rule would lead to the following silliness. If there were five elections in a row, and in four of those elections all the votes were split so that there were overlapping confidence intervals everywhere, and in the fifth election there was one very good candidate who ran away with the race among among one racial group and another candidate who did very well among another racial group, and one of them received one more vote than the other, then we would look at those five elections, we would throw out the first four and we would be focused only on that one election and we would say to the Court that this is a valid VRA case in which the preferred candidate of the minority always wins. That is the same logic that we would be engaging in if we were to adopt that approach to these first and second seats. Q. Well, in that case wouldn't we then just say that black voters weren't cohesive in the first four elections, and the fifth time they were cohesive and they

Page 179 Page 177 the same kinds of examples can exist where the vote is 1 1 do that. 2 2 And if we want to go through and apply that both cohesive for a bare majority of the cases, so if approach, we can do it and then the Court will have a more 3 3 there were five cases, we could have three where we barely 4 said is was cohesive and we could still -- if we threw out 4 attractive piece of paper that lays out that approach. I 5 those three -- I mean if we -- I'm sorry. If we only kept 5 don't believe that approach makes sense. It doesn't -- it those three, then we could still end up telling the Court doesn't -- it's not an approach that would be acceptable 6 6 7 7 if submitted to a peer-reviewed journal. If I said we're that there was -- that there was, based on a very small 8 number of cases, we would end up telling the Court that 8 going to drop all of the cases in which voting behavior is 9 not cohesive and focus only on those in which it was and there was -- that there was a situation in which the 10 minority-preferred candidates usually lost. 10 then draw inferences from that, that is not something that 11 Q. So the reason you don't like using the 11 political scientists would accept. 12 statistical significance difference as a decision rule in 12 Q. Okay. 13 A. So that's why I really do object to the 13 terms of assessing whether or not there are exercise, but the information is there. If the Court 14 14 minority-preferred candidates is because it gives you 15 15 fewer cases to choose from, right? There are fewer -- the decides that that is the right exercise, then the data are there to do it. 16 16 N gets lower so --17 Q. Okay. And just to be clear, you've never 17 A. No. There's an additional reason, which is 18 peer-reviewed any articles yourself that attempt to 18 that the type of election in which the votes are evenly 19 split between -- between voters in one group and the type 19 measure whether or not voting is racially polarized in a 20 jurisdiction, have you? of election in which the votes for those voters are 20 21 A. Not that I can recall. 21 focused on one candidate can be very different types of 22 Q. Okay. And we established earlier you're not 22 elections. So if we decide that we don't care about all an expert on the legal requirements of the Voting Rights 23 23 of the elections in which there are vote splits and we 24 24 only focus on those elections in which there is a focus on 25 25 one candidate, we're focusing on -- we're drawing A. I've established that there are some aspects Page 178 Page 180 inferences from two very different types of things. 1 of the legal requirements of the Voting Rights Act that I 1 2 The Voting Rights Act, as I understand it, 2 can read in plain text in the Gingles decision and in the 3 does not ask us to only analyze elections in which voting 3 senate report and in the legislation. There are some 4 behavior is cohesive. That is not my understanding, but 4 things there that I can understand. I've read a lot of 5 I'm willing to be -- I'm willing to be proven wrong. What 5 other court cases. There's much that I understand. There I have tried to do in my --6 6 are aspects of this that are contested, and those are the 7 Q. Because you're not an expert on the legal 7 aspects of this which are for the Court to determine. I 8 requirements of the Voting Rights Act, right, Dr. Rodden? 8 believe this is an area that is contested. 9 MS. ORMSBY: I'm going to ask you not to 9 I do not have a strong opinion about whether 10 interrupt him, just like you've asked him not to interrupt 10 it would be better to just observe point estimates of the 11 you, okay? Can he finish his answer, please? 11 top two or whether it's better to only look at the top 12 Q. Sure. 12 individual candidate, but I do not believe it makes sense 13 A. What I have done in my report --13 to throw out, in a rather arbitrary way, much of the 14 Q. Then you can answer my question. 14 data -- many of the seats. I do not believe it makes 15 A. -- is I have provided the Court with the 15 sense to ignore many of the seats. 16 information that is required to do exactly what we're 16 Q. So when you look at just the top candidate in 17 doing here, which is to try out different ideas for what a 17 each election, you're throwing out many of the seats, minority-preferred candidate is, so we can come up with, 18 18 right, Dr. Rodden? 19 19 you know -- if the Court likes the idea that we should A. In a principled way. 20 throw out all of these other cases, then -- and only look 20 Q. Okay. And you don't think --21 at the instances in which there was a -- there was a clear 21 A. In a way where the rules are clear. 22 minority-preferred candidate and we throw out all the 22 Q. And you don't think that saying I'm going to 23 seats in which that wasn't the case, if that is what the 23 throw out the seats where there's no statistically 24 Court decides is the right approach, then all the 24 significant difference in candidate support is a clear

Fax: 314.644.1334

25

decision rule?

information is here in the spreadsheets for the Court to

25

	Page 181		Page 183
1	A. It's a clear decision rule, but it's one that	1	Q. Now, if we just use the top minority
2	leads to leads to some potentially strange scenarios,	2	vote-getter in an election, you can imagine a scenario
3	as I described.	3	where let's say a two-seat election, one candidate gets 50
4	Q. Okay. So let's talk about the two decision	4	percent of black votes, another candidate gets 49 percent
5	rules that you've proposed and whether or not they lead to	5	of black votes, call that those candidates A and B
6	any strange scenarios. Let's take point estimates as our	6	respectively. Under that scenario, if we use the decision
7	decision rule. Well, take the two candidates with the	7	rule of only the top minority vote-getter, candidate that
8	high point estimates. Okay? Assume that all black	8	gets the top minority votes, candidate A with 50 percent
9	voters, except for one, single-shot vote for a single	9	would be considered minority-preferred, but candidate B
10	candidate; you got that assumption? Is that clear to you?	10	with 49 percent would not be considered
11	A. Say it again.	11	minority-preferred, correct, Dr. Rodden?
12	Q. Assume that all black voters in the	12	A. Yes. Each of these approaches has its
13	jurisdiction, except for one, single-shot vote for one	13	disadvantages.
14	the same candidate; got that assumption?	14	Q. Right. So any approach that we employ here,
15	A. All African-American voters in a jurisdiction	15	in terms of assessing whether or not a candidate is
16	vote for one candidate out of how many?	16	minority-preferred, could have some disadvantages,
17	Q. Out of four, and they all vote for the same	17	correct?
18	candidate, single-shot, except for one black voter.	18	A. That is correct.
19	A. Uh-huh.	19	Q. Okay. So what I want to use as the decision
20	Q. Is that clear? Okay. The one black voter who	20	rule for what we're going to put in Exhibit 13 here, and I
21	doesn't single-shot vote uses her second vote to vote for	21	know you disagree with it and your caveat is on the
22	another candidate. Is that assumption clear?	22	record, so don't worry about that.
23	A. So there are 10 voters, say, and nine of them	23	A. Right.
24	are single-shot voting for one candidate.	24	Q. I want to use a designation of
25	Q. For candidate A.	25	minority-preferred candidate where we know that that
	D 100		D 101
	Page 182		Page 184
1	Page 182 A. And voter number 10	1	Page 184 candidate has a level of support that is statistically
1 2	-	1 2	_
	A. And voter number 10		candidate has a level of support that is statistically
2	A. And voter number 10 Q. Gives one vote to candidate A and then one	2	candidate has a level of support that is statistically significantly different from other candidates such that we
2	A. And voter number 10 Q. Gives one vote to candidate A and then one vote to candidate B.	2	candidate has a level of support that is statistically significantly different from other candidates such that we know that that candidate is one of the top two
2 3 4	 A. And voter number 10 Q. Gives one vote to candidate A and then one vote to candidate B. A. Right. And so you're pointing out that in 	2 3 4	candidate has a level of support that is statistically significantly different from other candidates such that we know that that candidate is one of the top two vote-getters in a two-seat election, or one of the top
2 3 4 5	A. And voter number 10 Q. Gives one vote to candidate A and then one vote to candidate B. A. Right. And so you're pointing out that in this very unusual scenario, this would this would	2 3 4 5	candidate has a level of support that is statistically significantly different from other candidates such that we know that that candidate is one of the top two vote-getters in a two-seat election, or one of the top three vote-getters in a three-seat election.
2 3 4 5 6	A. And voter number 10 Q. Gives one vote to candidate A and then one vote to candidate B. A. Right. And so you're pointing out that in this very unusual scenario, this would this would create a situation in which there were two	2 3 4 5 6	candidate has a level of support that is statistically significantly different from other candidates such that we know that that candidate is one of the top two vote-getters in a two-seat election, or one of the top three vote-getters in a three-seat election. A. Yes, you want
2 3 4 5 6 7	A. And voter number 10 Q. Gives one vote to candidate A and then one vote to candidate B. A. Right. And so you're pointing out that in this very unusual scenario, this would this would create a situation in which there were two minority-preferred candidates.	2 3 4 5 6 7	candidate has a level of support that is statistically significantly different from other candidates such that we know that that candidate is one of the top two vote-getters in a two-seat election, or one of the top three vote-getters in a three-seat election. A. Yes, you want MS. ORMSBY: Wait. I'm going to put an
2 3 4 5 6 7 8	A. And voter number 10 Q. Gives one vote to candidate A and then one vote to candidate B. A. Right. And so you're pointing out that in this very unusual scenario, this would this would create a situation in which there were two minority-preferred candidates. Q. Even though only one minority voter voted for	2 3 4 5 6 7 8	candidate has a level of support that is statistically significantly different from other candidates such that we know that that candidate is one of the top two vote-getters in a two-seat election, or one of the top three vote-getters in a three-seat election. A. Yes, you want MS. ORMSBY: Wait. I'm going to put an objection on the record that this seems to be an exercise
2 3 4 5 6 7 8	A. And voter number 10 Q. Gives one vote to candidate A and then one vote to candidate B. A. Right. And so you're pointing out that in this very unusual scenario, this would this would create a situation in which there were two minority-preferred candidates. Q. Even though only one minority voter voted for candidate B, correct, Dr. Rodden?	2 3 4 5 6 7 8	candidate has a level of support that is statistically significantly different from other candidates such that we know that that candidate is one of the top two vote-getters in a two-seat election, or one of the top three vote-getters in a three-seat election. A. Yes, you want MS. ORMSBY: Wait. I'm going to put an objection on the record that this seems to be an exercise in which counsel would like to get his testimony into the
2 3 4 5 6 7 8 9	A. And voter number 10 Q. Gives one vote to candidate A and then one vote to candidate B. A. Right. And so you're pointing out that in this very unusual scenario, this would this would create a situation in which there were two minority-preferred candidates. Q. Even though only one minority voter voted for candidate B, correct, Dr. Rodden? A. In that very unusual hypothetical situation,	2 3 4 5 6 7 8 9	candidate has a level of support that is statistically significantly different from other candidates such that we know that that candidate is one of the top two vote-getters in a two-seat election, or one of the top three vote-getters in a three-seat election. A. Yes, you want MS. ORMSBY: Wait. I'm going to put an objection on the record that this seems to be an exercise in which counsel would like to get his testimony into the record by having Dr. Rodden fill out a chart specifically
2 3 4 5 6 7 8 9 10	A. And voter number 10 Q. Gives one vote to candidate A and then one vote to candidate B. A. Right. And so you're pointing out that in this very unusual scenario, this would this would create a situation in which there were two minority-preferred candidates. Q. Even though only one minority voter voted for candidate B, correct, Dr. Rodden? A. In that very unusual hypothetical situation, then that would be the case.	2 3 4 5 6 7 8 9 10	candidate has a level of support that is statistically significantly different from other candidates such that we know that that candidate is one of the top two vote-getters in a two-seat election, or one of the top three vote-getters in a three-seat election. A. Yes, you want MS. ORMSBY: Wait. I'm going to put an objection on the record that this seems to be an exercise in which counsel would like to get his testimony into the record by having Dr. Rodden fill out a chart specifically as you would like it to be filled out, and I want the
2 3 4 5 6 7 8 9 10 11	A. And voter number 10 Q. Gives one vote to candidate A and then one vote to candidate B. A. Right. And so you're pointing out that in this very unusual scenario, this would this would create a situation in which there were two minority-preferred candidates. Q. Even though only one minority voter voted for candidate B, correct, Dr. Rodden? A. In that very unusual hypothetical situation, then that would be the case. Q. So you would agree then that if we just use	2 3 4 5 6 7 8 9 10 11 12	candidate has a level of support that is statistically significantly different from other candidates such that we know that that candidate is one of the top two vote-getters in a two-seat election, or one of the top three vote-getters in a three-seat election. A. Yes, you want MS. ORMSBY: Wait. I'm going to put an objection on the record that this seems to be an exercise in which counsel would like to get his testimony into the record by having Dr. Rodden fill out a chart specifically as you would like it to be filled out, and I want the record extremely clear that that is exactly what is
2 3 4 5 6 7 8 9 10 11 12 13	A. And voter number 10 Q. Gives one vote to candidate A and then one vote to candidate B. A. Right. And so you're pointing out that in this very unusual scenario, this would this would create a situation in which there were two minority-preferred candidates. Q. Even though only one minority voter voted for candidate B, correct, Dr. Rodden? A. In that very unusual hypothetical situation, then that would be the case. Q. So you would agree then that if we just use the point estimates to assess who's a minority-preferred	2 3 4 5 6 7 8 9 10 11 12 13	candidate has a level of support that is statistically significantly different from other candidates such that we know that that candidate is one of the top two vote-getters in a two-seat election, or one of the top three vote-getters in a three-seat election. A. Yes, you want MS. ORMSBY: Wait. I'm going to put an objection on the record that this seems to be an exercise in which counsel would like to get his testimony into the record by having Dr. Rodden fill out a chart specifically as you would like it to be filled out, and I want the record extremely clear that that is exactly what is happening here, and he can go ahead and do it, but it's
2 3 4 5 6 7 8 9 10 11 12 13	A. And voter number 10 Q. Gives one vote to candidate A and then one vote to candidate B. A. Right. And so you're pointing out that in this very unusual scenario, this would this would create a situation in which there were two minority-preferred candidates. Q. Even though only one minority voter voted for candidate B, correct, Dr. Rodden? A. In that very unusual hypothetical situation, then that would be the case. Q. So you would agree then that if we just use the point estimates to assess who's a minority-preferred candidate, it can also lead to some strange results,	2 3 4 5 6 7 8 9 10 11 12 13 14	candidate has a level of support that is statistically significantly different from other candidates such that we know that that candidate is one of the top two vote-getters in a two-seat election, or one of the top three vote-getters in a three-seat election. A. Yes, you want MS. ORMSBY: Wait. I'm going to put an objection on the record that this seems to be an exercise in which counsel would like to get his testimony into the record by having Dr. Rodden fill out a chart specifically as you would like it to be filled out, and I want the record extremely clear that that is exactly what is happening here, and he can go ahead and do it, but it's your testimony, not his.
2 3 4 5 6 7 8 9 10 11 12 13 14	A. And voter number 10 Q. Gives one vote to candidate A and then one vote to candidate B. A. Right. And so you're pointing out that in this very unusual scenario, this would this would create a situation in which there were two minority-preferred candidates. Q. Even though only one minority voter voted for candidate B, correct, Dr. Rodden? A. In that very unusual hypothetical situation, then that would be the case. Q. So you would agree then that if we just use the point estimates to assess who's a minority-preferred candidate, it can also lead to some strange results, correct, Dr. Rodden?	2 3 4 5 6 7 8 9 10 11 12 13 14	candidate has a level of support that is statistically significantly different from other candidates such that we know that that candidate is one of the top two vote-getters in a two-seat election, or one of the top three vote-getters in a three-seat election. A. Yes, you want MS. ORMSBY: Wait. I'm going to put an objection on the record that this seems to be an exercise in which counsel would like to get his testimony into the record by having Dr. Rodden fill out a chart specifically as you would like it to be filled out, and I want the record extremely clear that that is exactly what is happening here, and he can go ahead and do it, but it's your testimony, not his. MR. HO: Well, it's not my testimony. I'm
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	A. And voter number 10 Q. Gives one vote to candidate A and then one vote to candidate B. A. Right. And so you're pointing out that in this very unusual scenario, this would this would create a situation in which there were two minority-preferred candidates. Q. Even though only one minority voter voted for candidate B, correct, Dr. Rodden? A. In that very unusual hypothetical situation, then that would be the case. Q. So you would agree then that if we just use the point estimates to assess who's a minority-preferred candidate, it can also lead to some strange results, correct, Dr. Rodden? A. Under some very hard to imagine hypotheticals.	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	candidate has a level of support that is statistically significantly different from other candidates such that we know that that candidate is one of the top two vote-getters in a two-seat election, or one of the top three vote-getters in a three-seat election. A. Yes, you want MS. ORMSBY: Wait. I'm going to put an objection on the record that this seems to be an exercise in which counsel would like to get his testimony into the record by having Dr. Rodden fill out a chart specifically as you would like it to be filled out, and I want the record extremely clear that that is exactly what is happening here, and he can go ahead and do it, but it's your testimony, not his. MR. HO: Well, it's not my testimony. I'm asking him if we can put information into this chart using
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	A. And voter number 10 Q. Gives one vote to candidate A and then one vote to candidate B. A. Right. And so you're pointing out that in this very unusual scenario, this would this would create a situation in which there were two minority-preferred candidates. Q. Even though only one minority voter voted for candidate B, correct, Dr. Rodden? A. In that very unusual hypothetical situation, then that would be the case. Q. So you would agree then that if we just use the point estimates to assess who's a minority-preferred candidate, it can also lead to some strange results, correct, Dr. Rodden? A. Under some very hard to imagine hypotheticals. Q. Well, it can also result in strange results where you identify a candidate as minority-preferred even though you don't know, as a statistical matter, whether	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	candidate has a level of support that is statistically significantly different from other candidates such that we know that that candidate is one of the top two vote-getters in a two-seat election, or one of the top three vote-getters in a three-seat election. A. Yes, you want MS. ORMSBY: Wait. I'm going to put an objection on the record that this seems to be an exercise in which counsel would like to get his testimony into the record by having Dr. Rodden fill out a chart specifically as you would like it to be filled out, and I want the record extremely clear that that is exactly what is happening here, and he can go ahead and do it, but it's your testimony, not his. MR. HO: Well, it's not my testimony. I'm asking him if we can put information into this chart using the decision rule that I know you object to, but using the
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	A. And voter number 10 Q. Gives one vote to candidate A and then one vote to candidate B. A. Right. And so you're pointing out that in this very unusual scenario, this would this would create a situation in which there were two minority-preferred candidates. Q. Even though only one minority voter voted for candidate B, correct, Dr. Rodden? A. In that very unusual hypothetical situation, then that would be the case. Q. So you would agree then that if we just use the point estimates to assess who's a minority-preferred candidate, it can also lead to some strange results, correct, Dr. Rodden? A. Under some very hard to imagine hypotheticals. Q. Well, it can also result in strange results where you identify a candidate as minority-preferred even	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	candidate has a level of support that is statistically significantly different from other candidates such that we know that that candidate is one of the top two vote-getters in a two-seat election, or one of the top three vote-getters in a three-seat election. A. Yes, you want MS. ORMSBY: Wait. I'm going to put an objection on the record that this seems to be an exercise in which counsel would like to get his testimony into the record by having Dr. Rodden fill out a chart specifically as you would like it to be filled out, and I want the record extremely clear that that is exactly what is happening here, and he can go ahead and do it, but it's your testimony, not his. MR. HO: Well, it's not my testimony. I'm asking him if we can put information into this chart using the decision rule that I know you object to, but using the decision rule identifying minority-preferred candidates
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	A. And voter number 10 Q. Gives one vote to candidate A and then one vote to candidate B. A. Right. And so you're pointing out that in this very unusual scenario, this would this would create a situation in which there were two minority-preferred candidates. Q. Even though only one minority voter voted for candidate B, correct, Dr. Rodden? A. In that very unusual hypothetical situation, then that would be the case. Q. So you would agree then that if we just use the point estimates to assess who's a minority-preferred candidate, it can also lead to some strange results, correct, Dr. Rodden? A. Under some very hard to imagine hypotheticals. Q. Well, it can also result in strange results where you identify a candidate as minority-preferred even though you don't know, as a statistical matter, whether	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	candidate has a level of support that is statistically significantly different from other candidates such that we know that that candidate is one of the top two vote-getters in a two-seat election, or one of the top three vote-getters in a three-seat election. A. Yes, you want MS. ORMSBY: Wait. I'm going to put an objection on the record that this seems to be an exercise in which counsel would like to get his testimony into the record by having Dr. Rodden fill out a chart specifically as you would like it to be filled out, and I want the record extremely clear that that is exactly what is happening here, and he can go ahead and do it, but it's your testimony, not his. MR. HO: Well, it's not my testimony. I'm asking him if we can put information into this chart using the decision rule identifying minority-preferred candidates based on statistical significance. Because what I want to
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	A. And voter number 10 Q. Gives one vote to candidate A and then one vote to candidate B. A. Right. And so you're pointing out that in this very unusual scenario, this would this would create a situation in which there were two minority-preferred candidates. Q. Even though only one minority voter voted for candidate B, correct, Dr. Rodden? A. In that very unusual hypothetical situation, then that would be the case. Q. So you would agree then that if we just use the point estimates to assess who's a minority-preferred candidate, it can also lead to some strange results, correct, Dr. Rodden? A. Under some very hard to imagine hypotheticals. Q. Well, it can also result in strange results where you identify a candidate as minority-preferred even though you don't know, as a statistical matter, whether that candidate got more votes from minority voters than several other candidates, correct? A. I agree that that is the I've been clear in	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	candidate has a level of support that is statistically significantly different from other candidates such that we know that that candidate is one of the top two vote-getters in a two-seat election, or one of the top three vote-getters in a three-seat election. A. Yes, you want MS. ORMSBY: Wait. I'm going to put an objection on the record that this seems to be an exercise in which counsel would like to get his testimony into the record by having Dr. Rodden fill out a chart specifically as you would like it to be filled out, and I want the record extremely clear that that is exactly what is happening here, and he can go ahead and do it, but it's your testimony, not his. MR. HO: Well, it's not my testimony. I'm asking him if we can put information into this chart using the decision rule that I know you object to, but using the decision rule identifying minority-preferred candidates based on statistical significance. Because what I want to know, as you put it, this chart could be cleaner than this
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	A. And voter number 10 Q. Gives one vote to candidate A and then one vote to candidate B. A. Right. And so you're pointing out that in this very unusual scenario, this would this would create a situation in which there were two minority-preferred candidates. Q. Even though only one minority voter voted for candidate B, correct, Dr. Rodden? A. In that very unusual hypothetical situation, then that would be the case. Q. So you would agree then that if we just use the point estimates to assess who's a minority-preferred candidate, it can also lead to some strange results, correct, Dr. Rodden? A. Under some very hard to imagine hypotheticals. Q. Well, it can also result in strange results where you identify a candidate as minority-preferred even though you don't know, as a statistical matter, whether that candidate got more votes from minority voters than several other candidates, correct?	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	candidate has a level of support that is statistically significantly different from other candidates such that we know that that candidate is one of the top two vote-getters in a two-seat election, or one of the top three vote-getters in a three-seat election. A. Yes, you want MS. ORMSBY: Wait. I'm going to put an objection on the record that this seems to be an exercise in which counsel would like to get his testimony into the record by having Dr. Rodden fill out a chart specifically as you would like it to be filled out, and I want the record extremely clear that that is exactly what is happening here, and he can go ahead and do it, but it's your testimony, not his. MR. HO: Well, it's not my testimony. I'm asking him if we can put information into this chart using the decision rule that I know you object to, but using the decision rule identifying minority-preferred candidates based on statistical significance. Because what I want to know, as you put it, this chart could be cleaner than this chart I'm sorry Exhibit 13 could be cleaner than your own Excel spreadsheet in terms of identifying the candidates who have statistically significantly higher
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	A. And voter number 10 Q. Gives one vote to candidate A and then one vote to candidate B. A. Right. And so you're pointing out that in this very unusual scenario, this would this would create a situation in which there were two minority-preferred candidates. Q. Even though only one minority voter voted for candidate B, correct, Dr. Rodden? A. In that very unusual hypothetical situation, then that would be the case. Q. So you would agree then that if we just use the point estimates to assess who's a minority-preferred candidate, it can also lead to some strange results, correct, Dr. Rodden? A. Under some very hard to imagine hypotheticals. Q. Well, it can also result in strange results where you identify a candidate as minority-preferred even though you don't know, as a statistical matter, whether that candidate got more votes from minority voters than several other candidates, correct? A. I agree that that is the I've been clear in	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	candidate has a level of support that is statistically significantly different from other candidates such that we know that that candidate is one of the top two vote-getters in a two-seat election, or one of the top three vote-getters in a three-seat election. A. Yes, you want MS. ORMSBY: Wait. I'm going to put an objection on the record that this seems to be an exercise in which counsel would like to get his testimony into the record by having Dr. Rodden fill out a chart specifically as you would like it to be filled out, and I want the record extremely clear that that is exactly what is happening here, and he can go ahead and do it, but it's your testimony, not his. MR. HO: Well, it's not my testimony. I'm asking him if we can put information into this chart using the decision rule that I know you object to, but using the decision rule identifying minority-preferred candidates based on statistical significance. Because what I want to know, as you put it, this chart could be cleaner than this chart I'm sorry Exhibit 13 could be cleaner than your own Excel spreadsheet in terms of identifying the

	Page 185		Page 187
1	piece of paper that you would like written down, because	1	favor. Hirsch is the top voter top candidate amongst
2	it's a deposition, you are asking the questions, and I	2	white voters, according to your estimates, correct?
3	will answer them.	3	A. Yes.
4	Q. Okay. And you understand what I'm asking for	4	Q. Okay. The second candidate that you estimate
5	here, right; that I'm looking at or I'm asking for those	5	in terms of white support is Thomas, but Thomas' point
6	candidates with statistically significantly higher levels	6	estimate in terms of white support is it is it
7	of support than other candidates, such that we know for a	7	statistically significantly different from any other
8	fact in a two-seat election a candidate was one of the top	8	candidates?
9	two vote-getters amongst blacks, or in a three-seat	9	A. No.
10	election, was one of the top three vote-getters amongst	10	Q. Okay. So we can say, using this decision
11	black voters?	11	rule, that Hirsch and Thomas are preferred white
12	A. Yes.	12	candidates, correct?
13	Q. Okay. And I know you object to that decision	13	A. Yes.
14	rule, but	14	Q. Okay. And so we could then say, using this
15	A. Right. We'll go for it.	15	decision rule, there are two white-preferred candidates,
16	Q. Great. Just using your data here. So the	16	and I believe both were successful, correct?
17	2000 election, we know that Thomas was the highest	17	MS. ORMSBY: I'm sorry. I'm not following.
18	vote-getter amongst blacks, correct?	18	Hirsch Thomas got 18 percent of the vote.
19	A. So we're starting from the beginning now?	19	Q. Uh-huh.
20	Q. Yes.	20	MS. ORMSBY: Upper is for white is 23,
21	A. We're in 2000?	21	lower is 14. 18 is between those two, so wouldn't Thomas
22	Q. Yes. Start with 2000.	22	not be a preferred?
23	A. Yes.	23	A. That's what we've agreed to, that Thomas is
24	Q. And we know that the point estimate for	24	MS. ORMSBY: He just said Hirsch and Thomas
25	Thomas' support lies outside of the confidence interval	25	were preferred candidates of whites.
			,
	Page 186		Page 188
1	Page 186 for the second highest estimated candidate for blacks, and	1	$Page \ 188$ A. Oh. No. There's only one under this rule.
1 2		1 2	_
	for the second highest estimated candidate for blacks, and		A. Oh. No. There's only one under this rule.
2	for the second highest estimated candidate for blacks, and that's Hirsch, correct?	2	A. Oh. No. There's only one under this rule.Q. Oh, did I I'm sorry.
2	for the second highest estimated candidate for blacks, and that's Hirsch, correct? A. Yes.	2	 A. Oh. No. There's only one under this rule. Q. Oh, did I I'm sorry. A. We agreed that there is one preferred
2 3 4	for the second highest estimated candidate for blacks, and that's Hirsch, correct? A. Yes. Q. Okay. And Hirsch, the second highest	2 3 4	 A. Oh. No. There's only one under this rule. Q. Oh, did I I'm sorry. A. We agreed that there is one preferred candidate. Verbally you agreed to that, there is one
2 3 4 5	for the second highest estimated candidate for blacks, and that's Hirsch, correct? A. Yes. Q. Okay. And Hirsch, the second highest estimated candidate for in terms of black support,	2 3 4 5	 A. Oh. No. There's only one under this rule. Q. Oh, did I I'm sorry. A. We agreed that there is one preferred candidate. Verbally you agreed to that, there is one preferred candidate, just Hirsch.
2 3 4 5 6	for the second highest estimated candidate for blacks, and that's Hirsch, correct? A. Yes. Q. Okay. And Hirsch, the second highest estimated candidate for in terms of black support, Hirsch's point estimate lies within the confidence	2 3 4 5 6	 A. Oh. No. There's only one under this rule. Q. Oh, did I I'm sorry. A. We agreed that there is one preferred candidate. Verbally you agreed to that, there is one preferred candidate, just Hirsch. Q. Okay. I apologize. So using this decision
2 3 4 5 6 7	for the second highest estimated candidate for blacks, and that's Hirsch, correct? A. Yes. Q. Okay. And Hirsch, the second highest estimated candidate for in terms of black support, Hirsch's point estimate lies within the confidence interval for the third candidate in terms of black	2 3 4 5 6 7	 A. Oh. No. There's only one under this rule. Q. Oh, did I I'm sorry. A. We agreed that there is one preferred candidate. Verbally you agreed to that, there is one preferred candidate, just Hirsch. Q. Okay. I apologize. So using this decision rule of statistical significance, Hirsch is the lone
2 3 4 5 6 7 8	for the second highest estimated candidate for blacks, and that's Hirsch, correct? A. Yes. Q. Okay. And Hirsch, the second highest estimated candidate for in terms of black support, Hirsch's point estimate lies within the confidence interval for the third candidate in terms of black support, Smith, correct?	2 3 4 5 6 7 8	 A. Oh. No. There's only one under this rule. Q. Oh, did I I'm sorry. A. We agreed that there is one preferred candidate. Verbally you agreed to that, there is one preferred candidate, just Hirsch. Q. Okay. I apologize. So using this decision rule of statistical significance, Hirsch is the lone white-preferred candidate in 2000 and Hirsch was elected,
2 3 4 5 6 7 8	for the second highest estimated candidate for blacks, and that's Hirsch, correct? A. Yes. Q. Okay. And Hirsch, the second highest estimated candidate for in terms of black support, Hirsch's point estimate lies within the confidence interval for the third candidate in terms of black support, Smith, correct? A. Yes.	2 3 4 5 6 7 8	A. Oh. No. There's only one under this rule. Q. Oh, did I I'm sorry. A. We agreed that there is one preferred candidate. Verbally you agreed to that, there is one preferred candidate, just Hirsch. Q. Okay. I apologize. So using this decision rule of statistical significance, Hirsch is the lone white-preferred candidate in 2000 and Hirsch was elected, correct?
2 3 4 5 6 7 8 9	for the second highest estimated candidate for blacks, and that's Hirsch, correct? A. Yes. Q. Okay. And Hirsch, the second highest estimated candidate for in terms of black support, Hirsch's point estimate lies within the confidence interval for the third candidate in terms of black support, Smith, correct? A. Yes. Q. So we don't know for a fact whether or not	2 3 4 5 6 7 8 9	 A. Oh. No. There's only one under this rule. Q. Oh, did I I'm sorry. A. We agreed that there is one preferred candidate. Verbally you agreed to that, there is one preferred candidate, just Hirsch. Q. Okay. I apologize. So using this decision rule of statistical significance, Hirsch is the lone white-preferred candidate in 2000 and Hirsch was elected, correct? A. Correct.
2 3 4 5 6 7 8 9 10	for the second highest estimated candidate for blacks, and that's Hirsch, correct? A. Yes. Q. Okay. And Hirsch, the second highest estimated candidate for in terms of black support, Hirsch's point estimate lies within the confidence interval for the third candidate in terms of black support, Smith, correct? A. Yes. Q. So we don't know for a fact whether or not Hirsch or Smith was the number two candidate for black	2 3 4 5 6 7 8 9 10	A. Oh. No. There's only one under this rule. Q. Oh, did I I'm sorry. A. We agreed that there is one preferred candidate. Verbally you agreed to that, there is one preferred candidate, just Hirsch. Q. Okay. I apologize. So using this decision rule of statistical significance, Hirsch is the lone white-preferred candidate in 2000 and Hirsch was elected, correct? A. Correct. Q. Okay. Let's talk about 2001.
2 3 4 5 6 7 8 9 10 11	for the second highest estimated candidate for blacks, and that's Hirsch, correct? A. Yes. Q. Okay. And Hirsch, the second highest estimated candidate for in terms of black support, Hirsch's point estimate lies within the confidence interval for the third candidate in terms of black support, Smith, correct? A. Yes. Q. So we don't know for a fact whether or not Hirsch or Smith was the number two candidate for black voters to any degree of statistical certainty, correct?	2 3 4 5 6 7 8 9 10 11 12	A. Oh. No. There's only one under this rule. Q. Oh, did I I'm sorry. A. We agreed that there is one preferred candidate. Verbally you agreed to that, there is one preferred candidate, just Hirsch. Q. Okay. I apologize. So using this decision rule of statistical significance, Hirsch is the lone white-preferred candidate in 2000 and Hirsch was elected, correct? A. Correct. Q. Okay. Let's talk about 2001. MS. ORMSBY: So in 2000 you're saying that
2 3 4 5 6 7 8 9 10 11 12	for the second highest estimated candidate for blacks, and that's Hirsch, correct? A. Yes. Q. Okay. And Hirsch, the second highest estimated candidate for in terms of black support, Hirsch's point estimate lies within the confidence interval for the third candidate in terms of black support, Smith, correct? A. Yes. Q. So we don't know for a fact whether or not Hirsch or Smith was the number two candidate for black voters to any degree of statistical certainty, correct? A. Correct.	2 3 4 5 6 7 8 9 10 11 12 13	A. Oh. No. There's only one under this rule. Q. Oh, did I I'm sorry. A. We agreed that there is one preferred candidate. Verbally you agreed to that, there is one preferred candidate, just Hirsch. Q. Okay. I apologize. So using this decision rule of statistical significance, Hirsch is the lone white-preferred candidate in 2000 and Hirsch was elected, correct? A. Correct. Q. Okay. Let's talk about 2001. MS. ORMSBY: So in 2000 you're saying that each race's preferred candidate was elected, correct?
2 3 4 5 6 7 8 9 10 11 12 13 14	for the second highest estimated candidate for blacks, and that's Hirsch, correct? A. Yes. Q. Okay. And Hirsch, the second highest estimated candidate for in terms of black support, Hirsch's point estimate lies within the confidence interval for the third candidate in terms of black support, Smith, correct? A. Yes. Q. So we don't know for a fact whether or not Hirsch or Smith was the number two candidate for black voters to any degree of statistical certainty, correct? A. Correct. Q. Okay. So now using the decision rule that	2 3 4 5 6 7 8 9 10 11 12 13 14	A. Oh. No. There's only one under this rule. Q. Oh, did I I'm sorry. A. We agreed that there is one preferred candidate. Verbally you agreed to that, there is one preferred candidate, just Hirsch. Q. Okay. I apologize. So using this decision rule of statistical significance, Hirsch is the lone white-preferred candidate in 2000 and Hirsch was elected, correct? A. Correct. Q. Okay. Let's talk about 2001. MS. ORMSBY: So in 2000 you're saying that each race's preferred candidate was elected, correct? MR. HO: Are you asking me questions as a
2 3 4 5 6 7 8 9 10 11 12 13 14 15	for the second highest estimated candidate for blacks, and that's Hirsch, correct? A. Yes. Q. Okay. And Hirsch, the second highest estimated candidate for in terms of black support, Hirsch's point estimate lies within the confidence interval for the third candidate in terms of black support, Smith, correct? A. Yes. Q. So we don't know for a fact whether or not Hirsch or Smith was the number two candidate for black voters to any degree of statistical certainty, correct? A. Correct. Q. Okay. So now using the decision rule that I've asked you to adopt for purposes of filling out this	2 3 4 5 6 7 8 9 10 11 12 13 14	A. Oh. No. There's only one under this rule. Q. Oh, did I I'm sorry. A. We agreed that there is one preferred candidate. Verbally you agreed to that, there is one preferred candidate, just Hirsch. Q. Okay. I apologize. So using this decision rule of statistical significance, Hirsch is the lone white-preferred candidate in 2000 and Hirsch was elected, correct? A. Correct. Q. Okay. Let's talk about 2001. MS. ORMSBY: So in 2000 you're saying that each race's preferred candidate was elected, correct? MR. HO: Are you asking me questions as a deponent, Cindy?
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	for the second highest estimated candidate for blacks, and that's Hirsch, correct? A. Yes. Q. Okay. And Hirsch, the second highest estimated candidate for in terms of black support, Hirsch's point estimate lies within the confidence interval for the third candidate in terms of black support, Smith, correct? A. Yes. Q. So we don't know for a fact whether or not Hirsch or Smith was the number two candidate for black voters to any degree of statistical certainty, correct? A. Correct. Q. Okay. So now using the decision rule that I've asked you to adopt for purposes of filling out this sheet, and I know you object to it, but just using	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	A. Oh. No. There's only one under this rule. Q. Oh, did I I'm sorry. A. We agreed that there is one preferred candidate. Verbally you agreed to that, there is one preferred candidate, just Hirsch. Q. Okay. I apologize. So using this decision rule of statistical significance, Hirsch is the lone white-preferred candidate in 2000 and Hirsch was elected, correct? A. Correct. Q. Okay. Let's talk about 2001. MS. ORMSBY: So in 2000 you're saying that each race's preferred candidate was elected, correct? MR. HO: Are you asking me questions as a deponent, Cindy? MS. ORMSBY: I'm just trying to clarify the
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	for the second highest estimated candidate for blacks, and that's Hirsch, correct? A. Yes. Q. Okay. And Hirsch, the second highest estimated candidate for in terms of black support, Hirsch's point estimate lies within the confidence interval for the third candidate in terms of black support, Smith, correct? A. Yes. Q. So we don't know for a fact whether or not Hirsch or Smith was the number two candidate for black voters to any degree of statistical certainty, correct? A. Correct. Q. Okay. So now using the decision rule that I've asked you to adopt for purposes of filling out this sheet, and I know you object to it, but just using statistical significance to identify candidates of choice,	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	A. Oh. No. There's only one under this rule. Q. Oh, did I I'm sorry. A. We agreed that there is one preferred candidate. Verbally you agreed to that, there is one preferred candidate, just Hirsch. Q. Okay. I apologize. So using this decision rule of statistical significance, Hirsch is the lone white-preferred candidate in 2000 and Hirsch was elected, correct? A. Correct. Q. Okay. Let's talk about 2001. MS. ORMSBY: So in 2000 you're saying that each race's preferred candidate was elected, correct? MR. HO: Are you asking me questions as a deponent, Cindy? MS. ORMSBY: I'm just trying to clarify the record that I wrote this down correctly.
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	for the second highest estimated candidate for blacks, and that's Hirsch, correct? A. Yes. Q. Okay. And Hirsch, the second highest estimated candidate for in terms of black support, Hirsch's point estimate lies within the confidence interval for the third candidate in terms of black support, Smith, correct? A. Yes. Q. So we don't know for a fact whether or not Hirsch or Smith was the number two candidate for black voters to any degree of statistical certainty, correct? A. Correct. Q. Okay. So now using the decision rule that I've asked you to adopt for purposes of filling out this sheet, and I know you object to it, but just using statistical significance to identify candidates of choice, Thomas was a candidate of choice and there is no second	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	A. Oh. No. There's only one under this rule. Q. Oh, did I I'm sorry. A. We agreed that there is one preferred candidate. Verbally you agreed to that, there is one preferred candidate, just Hirsch. Q. Okay. I apologize. So using this decision rule of statistical significance, Hirsch is the lone white-preferred candidate in 2000 and Hirsch was elected, correct? A. Correct. Q. Okay. Let's talk about 2001. MS. ORMSBY: So in 2000 you're saying that each race's preferred candidate was elected, correct? MR. HO: Are you asking me questions as a deponent, Cindy? MS. ORMSBY: I'm just trying to clarify the record that I wrote this down correctly. MR. HO: Yes. I have ones in each column.
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	for the second highest estimated candidate for blacks, and that's Hirsch, correct? A. Yes. Q. Okay. And Hirsch, the second highest estimated candidate for in terms of black support, Hirsch's point estimate lies within the confidence interval for the third candidate in terms of black support, Smith, correct? A. Yes. Q. So we don't know for a fact whether or not Hirsch or Smith was the number two candidate for black voters to any degree of statistical certainty, correct? A. Correct. Q. Okay. So now using the decision rule that I've asked you to adopt for purposes of filling out this sheet, and I know you object to it, but just using statistical significance to identify candidates of choice, Thomas was a candidate of choice and there is no second black candidate of choice, correct?	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	A. Oh. No. There's only one under this rule. Q. Oh, did I I'm sorry. A. We agreed that there is one preferred candidate. Verbally you agreed to that, there is one preferred candidate, just Hirsch. Q. Okay. I apologize. So using this decision rule of statistical significance, Hirsch is the lone white-preferred candidate in 2000 and Hirsch was elected, correct? A. Correct. Q. Okay. Let's talk about 2001. MS. ORMSBY: So in 2000 you're saying that each race's preferred candidate was elected, correct? MR. HO: Are you asking me questions as a deponent, Cindy? MS. ORMSBY: I'm just trying to clarify the record that I wrote this down correctly. MR. HO: Yes. I have ones in each column. MS. ORMSBY: Thank you.
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	for the second highest estimated candidate for blacks, and that's Hirsch, correct? A. Yes. Q. Okay. And Hirsch, the second highest estimated candidate for in terms of black support, Hirsch's point estimate lies within the confidence interval for the third candidate in terms of black support, Smith, correct? A. Yes. Q. So we don't know for a fact whether or not Hirsch or Smith was the number two candidate for black voters to any degree of statistical certainty, correct? A. Correct. Q. Okay. So now using the decision rule that I've asked you to adopt for purposes of filling out this sheet, and I know you object to it, but just using statistical significance to identify candidates of choice, Thomas was a candidate of choice and there is no second black candidate of choice, correct? A. Correct.	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	A. Oh. No. There's only one under this rule. Q. Oh, did I I'm sorry. A. We agreed that there is one preferred candidate. Verbally you agreed to that, there is one preferred candidate, just Hirsch. Q. Okay. I apologize. So using this decision rule of statistical significance, Hirsch is the lone white-preferred candidate in 2000 and Hirsch was elected, correct? A. Correct. Q. Okay. Let's talk about 2001. MS. ORMSBY: So in 2000 you're saying that each race's preferred candidate was elected, correct? MR. HO: Are you asking me questions as a deponent, Cindy? MS. ORMSBY: I'm just trying to clarify the record that I wrote this down correctly. MR. HO: Yes. I have ones in each column. MS. ORMSBY: Thank you. Q. Okay. So 2001 now, before we look at the
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	for the second highest estimated candidate for blacks, and that's Hirsch, correct? A. Yes. Q. Okay. And Hirsch, the second highest estimated candidate for in terms of black support, Hirsch's point estimate lies within the confidence interval for the third candidate in terms of black support, Smith, correct? A. Yes. Q. So we don't know for a fact whether or not Hirsch or Smith was the number two candidate for black voters to any degree of statistical certainty, correct? A. Correct. Q. Okay. So now using the decision rule that I've asked you to adopt for purposes of filling out this sheet, and I know you object to it, but just using statistical significance to identify candidates of choice, Thomas was a candidate of choice and there is no second black candidate of choice, correct? A. Correct. Q. Okay. And Thomas was elected, so we can say	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	A. Oh. No. There's only one under this rule. Q. Oh, did I I'm sorry. A. We agreed that there is one preferred candidate. Verbally you agreed to that, there is one preferred candidate, just Hirsch. Q. Okay. I apologize. So using this decision rule of statistical significance, Hirsch is the lone white-preferred candidate in 2000 and Hirsch was elected, correct? A. Correct. Q. Okay. Let's talk about 2001. MS. ORMSBY: So in 2000 you're saying that each race's preferred candidate was elected, correct? MR. HO: Are you asking me questions as a deponent, Cindy? MS. ORMSBY: I'm just trying to clarify the record that I wrote this down correctly. MR. HO: Yes. I have ones in each column. MS. ORMSBY: Thank you. Q. Okay. So 2001 now, before we look at the well, actually let's just go to the numbers. The top
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	for the second highest estimated candidate for blacks, and that's Hirsch, correct? A. Yes. Q. Okay. And Hirsch, the second highest estimated candidate for in terms of black support, Hirsch's point estimate lies within the confidence interval for the third candidate in terms of black support, Smith, correct? A. Yes. Q. So we don't know for a fact whether or not Hirsch or Smith was the number two candidate for black voters to any degree of statistical certainty, correct? A. Correct. Q. Okay. So now using the decision rule that I've asked you to adopt for purposes of filling out this sheet, and I know you object to it, but just using statistical significance to identify candidates of choice, Thomas was a candidate of choice and there is no second black candidate of choice, correct? A. Correct. Q. Okay. And Thomas was elected, so we can say that one out of one black-preferred candidates was	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	A. Oh. No. There's only one under this rule. Q. Oh, did I I'm sorry. A. We agreed that there is one preferred candidate. Verbally you agreed to that, there is one preferred candidate, just Hirsch. Q. Okay. I apologize. So using this decision rule of statistical significance, Hirsch is the lone white-preferred candidate in 2000 and Hirsch was elected, correct? A. Correct. Q. Okay. Let's talk about 2001. MS. ORMSBY: So in 2000 you're saying that each race's preferred candidate was elected, correct? MR. HO: Are you asking me questions as a deponent, Cindy? MS. ORMSBY: I'm just trying to clarify the record that I wrote this down correctly. MR. HO: Yes. I have ones in each column. MS. ORMSBY: Thank you. Q. Okay. So 2001 now, before we look at the well, actually let's just go to the numbers. The top choice among black voters in 2001 is Butler with about
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	for the second highest estimated candidate for blacks, and that's Hirsch, correct? A. Yes. Q. Okay. And Hirsch, the second highest estimated candidate for in terms of black support, Hirsch's point estimate lies within the confidence interval for the third candidate in terms of black support, Smith, correct? A. Yes. Q. So we don't know for a fact whether or not Hirsch or Smith was the number two candidate for black voters to any degree of statistical certainty, correct? A. Correct. Q. Okay. So now using the decision rule that I've asked you to adopt for purposes of filling out this sheet, and I know you object to it, but just using statistical significance to identify candidates of choice, Thomas was a candidate of choice and there is no second black candidate of choice, correct? A. Correct. Q. Okay. And Thomas was elected, so we can say that one out of one black-preferred candidates was successful in 2000, correct?	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	A. Oh. No. There's only one under this rule. Q. Oh, did I I'm sorry. A. We agreed that there is one preferred candidate. Verbally you agreed to that, there is one preferred candidate, just Hirsch. Q. Okay. I apologize. So using this decision rule of statistical significance, Hirsch is the lone white-preferred candidate in 2000 and Hirsch was elected, correct? A. Correct. Q. Okay. Let's talk about 2001. MS. ORMSBY: So in 2000 you're saying that each race's preferred candidate was elected, correct? MR. HO: Are you asking me questions as a deponent, Cindy? MS. ORMSBY: I'm just trying to clarify the record that I wrote this down correctly. MR. HO: Yes. I have ones in each column. MS. ORMSBY: Thank you. Q. Okay. So 2001 now, before we look at the well, actually let's just go to the numbers. The top choice among black voters in 2001 is Butler with about 40.5 percent of black votes; is that right?

	Page 189		Page 191
1	that right?	1	statistical certainty, was higher than Hogshead, right?
2	A. Right.	2	A. Yes.
3	Q. And you estimate Garofalo is receiving about	3	Q. So we know that Butler was among the top two
4	24.7 percent of black votes, correct?	4	candidates for black voters, correct?
5	A. Yes.	5	A. I'm sorry. Are we adopting a new decision
6	Q. That's a gap of about 16 percentage points	6	rule now?
7	between Butler and Garofalo in terms of estimated black	7	Q. No. The decision rule that I suggested before
8	support; is that right?	8	was we'll use statistical significance and the confidence
9	A. There's there's no there's no black	9	intervals to try to determine whether or not in a two-seat
10	candidate of choice here.	10	election a candidate is among the top two for minority
11	Q. Well, we'll get there.	11	voters, to be labeled as minority-preferred, and in the
12	A. By your approach.	12	top three in a three-seat election in order to understand
13	Q. Yeah. Well, we'll get there in a second, but	13	that candidate as minority-preferred. That's the decision
14	let's just I'm just comparing Butler and Garofalo here.	14	rule that I've proposed. And under that
15	A. So 2001 there is a blank for preferred	15	A. I did not understand the decision rule, so
16	candidate.	16	Q. Okay.
17	Q. Wait. That wasn't my question. My question	17	A. So it is not about necessarily the difference
18	was comparing Butler and Garofalo's level of support.	18	between candidate number two and candidate number three.
19	A. Indeed.	19	You are asking about in a three in a two-seat race
20	Q. So by the point estimates, Butler got	20	Q. Uh-huh.
21	substantially more support amongst blacks than Garofalo,	21	A you would like to know whether the
22	correct?	22	top-ranked candidate is among the top two?
23	A. But Garofalo's point estimate lies within	23	Q. To a degree of statistical significance.
24	Butler's confidence interval, so they're statistically	24	A. Whether the top-ranked candidate is among the
25	indistinguishable, so it's a blank.	25	top two.
	Page 190		Page 192
1	Q. Okay. So you would say by the decision rule	1	Q. Yes. And according to your estimates here, we
2	that we've adopted	2	know to a degree of statistical certainty that Butler was
3	A. You would say. You would say that.	3	among the top two candidates for black voters in 2001,
4	Q. Well, let's slow down a little bit, Dr.	4	correct?
5	Rodden.	5	A. Yes.
6	A. That is the decision rule we have applied.	6	Q. But we don't know whether or not Garofalo or
7	Q. I think you're mistaken, but I'll explain that	7	Hogshead were among the top two for black voters, correct,
8	in a second. So Butler	8	to a degree of statistical certainty?
9	A. Wait. So now you would like to apply decision	9	A. Correct.
10	rule where the top candidate	10	Q. So that's why I would like to identify Butler
11	Q. No.	11	as a black candidate of choice here, and Butler only. Do
12	A is the top candidate regardless of	12	you agree with that, using the decision rule that we've
13	confidence intervals?	13	adopted for purposes of this exercise?
14	Q. No, no, no. I think you're misunderstanding	14	A. Using the decision rule that we've adopted for
15	me. Just slow down for a second.	15	the purposes of this exercise, which I now understand to
16	A. Okay.	16	be whether I'm sorry. I need to I now need to
17	Q. Just slow down. The third highest candidate	17	revisit the earlier analysis, because the decision rule
18	for blacks in 2001, as estimated by you, is Hogshead,	18	was not clear to me earlier.
	correct?	19	Q. Okay.
19	A Dista	20	A. Okay. So far we're okay.
19 20	A. Right.		
	A. Right. Q. Okay. And the point estimate for Butler's	21	Q. We're okay?
20		21 22	Q. We're okay?A. So we are saying that in 2001
20 21	Q. Okay. And the point estimate for Butler's		-
20 21 22	Q. Okay. And the point estimate for Butler's support lies outside of the confidence interval for	22	A. So we are saying that in 2001

	Page 193		Page 195
1	candidates for black voters?	1	A. That is correct, Butler was not successful.
2	A. Yes.	2	Q. Okay. So using this definition of
3	Q. And we don't know that for any other	3	minority-preferred, the statistical based on
4	candidate, correct?	4	statistical significance, we know two out of two
5	A. We don't know whether they were among the top	5	white-preferred candidates were elected, and zero out of
6	two, because the the distance between the point	6	one black-preferred candidates were elected, correct?
7	estimate of Hogshead and Garofalo was not statistically	7	A. Yes.
8	significant, so yes.	8	Q. Okay. And for the record, Garofalo and
9	Q. Okay. So I have that as one black-preferred	9	Hogshead are white, and Butler is black, correct?
10	candidate using this decision rule, and that that one	10	A. Correct.
11	candidate was successful. Now, what I was getting at with	11	Q. Okay. Let's talk about 2002. 2002 there were
12	the questions that I was actually asking you, Professor	12	three seats, correct?
13	Rodden, when we went off in this direction, was just	13	A. Yes.
14	comparing the point estimates of support for Butler and	14	Q. Now, Fletcher was the top white voter sorry
15	Garofalo, I just want to make clear, Butler's point	15	was the top candidate amongst white voters at about 22
16	estimate for support is 15 percentage points higher than	16	percent of white voters, correct?
17	your point estimate of support for Garofalo, correct?	17	A. Yes.
18	A. Yes.	18	Q. Do we know to a degree of statistical
19	Q. And looking at the point estimates, Garofalo	19	certitude whether or not the next two highest point
20	got less than two-thirds the level of support received by	20	estimated candidates for blacks for whites, I'm sorry,
21	Butler from black voters; is that right?	21	Knorr and Clark, whether or not they were, in fact, among
22	A. Yes.	22	the top three?
23	Q. Okay. Now, for white voters, the top choice	23	A. No.
24	you have for white voters is Garofalo at 35.1 percent of	24	Q. Okay. So I would like to record, by this
25	white votes, correct?	25	decision rule, there is one white-preferred candidate and
1	A. Yes.	1	Fletcher was elected, correct?
2	Q. And for Hogshead your point estimate is she's	2	A. No. The other the other point estimates
3	the second highest supported candidate among white voters	3	are within the confidence interval.
4	at 32.2 percent, correct?	4	Q. Oh. So Fletcher is not, by the decision rule
5	A. Yes.	5	that walve auticulated a widte medamed as which
6	Q. And the differences between Garofalo and		that we've articulated, a white-preferred candidate?
-		6	A. There is no white-preferred candidate?
7	Hogshead and the third highest point estimated candidate	6 7	•
8	Hogshead and the third highest point estimated candidate for whites, which is Lentz, that difference is		A. There is no white-preferred candidate in 2002.
		7	A. There is no white-preferred candidate in 2002.Q. Okay. So let's just say zero and zero. Now,
8	for whites, which is Lentz, that difference is	7 8	 A. There is no white-preferred candidate in 2002. Q. Okay. So let's just say zero and zero. Now, in 2002 the candidate with the highest estimated level of
8 9	for whites, which is Lentz, that difference is statistically significant, correct?	7 8 9	A. There is no white-preferred candidate in 2002. Q. Okay. So let's just say zero and zero. Now, in 2002 the candidate with the highest estimated level of support amongst black voters is Graham at about 31.9
8 9 10	for whites, which is Lentz, that difference is statistically significant, correct? A. Yes.	7 8 9 10	A. There is no white-preferred candidate in 2002. Q. Okay. So let's just say zero and zero. Now, in 2002 the candidate with the highest estimated level of support amongst black voters is Graham at about 31.9 percent; is that right?
8 9 10 11	for whites, which is Lentz, that difference is statistically significant, correct? A. Yes. Q. So using this decision rule of statistical	7 8 9 10 11	 A. There is no white-preferred candidate in 2002. Q. Okay. So let's just say zero and zero. Now, in 2002 the candidate with the highest estimated level of support amongst black voters is Graham at about 31.9 percent; is that right? A. Yes. Q. Okay. And we know to a degree of statistical
8 9 10 11 12	for whites, which is Lentz, that difference is statistically significant, correct? A. Yes. Q. So using this decision rule of statistical significance, we know that Garofalo and Hogshead were the	7 8 9 10 11 12	 A. There is no white-preferred candidate in 2002. Q. Okay. So let's just say zero and zero. Now, in 2002 the candidate with the highest estimated level of support amongst black voters is Graham at about 31.9 percent; is that right? A. Yes. Q. Okay. And we know to a degree of statistical
8 9 10 11 12 13	for whites, which is Lentz, that difference is statistically significant, correct? A. Yes. Q. So using this decision rule of statistical significance, we know that Garofalo and Hogshead were the top two voters top two candidates for white voters to a	7 8 9 10 11 12 13	 A. There is no white-preferred candidate in 2002. Q. Okay. So let's just say zero and zero. Now, in 2002 the candidate with the highest estimated level of support amongst black voters is Graham at about 31.9 percent; is that right? A. Yes. Q. Okay. And we know to a degree of statistical certitude that Graham received the highest level of black
8 9 10 11 12 13	for whites, which is Lentz, that difference is statistically significant, correct? A. Yes. Q. So using this decision rule of statistical significance, we know that Garofalo and Hogshead were the top two voters top two candidates for white voters to a degree of statistical certitude, correct?	7 8 9 10 11 12 13 14	A. There is no white-preferred candidate in 2002. Q. Okay. So let's just say zero and zero. Now, in 2002 the candidate with the highest estimated level of support amongst black voters is Graham at about 31.9 percent; is that right? A. Yes. Q. Okay. And we know to a degree of statistical certitude that Graham received the highest level of black support, correct?
8 9 10 11 12 13 14	for whites, which is Lentz, that difference is statistically significant, correct? A. Yes. Q. So using this decision rule of statistical significance, we know that Garofalo and Hogshead were the top two voters top two candidates for white voters to a degree of statistical certitude, correct? A. Yes.	7 8 9 10 11 12 13 14 15	A. There is no white-preferred candidate in 2002. Q. Okay. So let's just say zero and zero. Now, in 2002 the candidate with the highest estimated level of support amongst black voters is Graham at about 31.9 percent; is that right? A. Yes. Q. Okay. And we know to a degree of statistical certitude that Graham received the highest level of black support, correct? A. No.
8 9 10 11 12 13 14 15	for whites, which is Lentz, that difference is statistically significant, correct? A. Yes. Q. So using this decision rule of statistical significance, we know that Garofalo and Hogshead were the top two voters top two candidates for white voters to a degree of statistical certitude, correct? A. Yes. Q. Okay. Could we record that.	7 8 9 10 11 12 13 14 15 16	 A. There is no white-preferred candidate in 2002. Q. Okay. So let's just say zero and zero. Now, in 2002 the candidate with the highest estimated level of support amongst black voters is Graham at about 31.9 percent; is that right? A. Yes. Q. Okay. And we know to a degree of statistical certitude that Graham received the highest level of black support, correct? A. No. Q. No?
8 9 10 11 12 13 14 15 16	for whites, which is Lentz, that difference is statistically significant, correct? A. Yes. Q. So using this decision rule of statistical significance, we know that Garofalo and Hogshead were the top two voters top two candidates for white voters to a degree of statistical certitude, correct? A. Yes. Q. Okay. Could we record that. A. (The witness complied.)	7 8 9 10 11 12 13 14 15 16	A. There is no white-preferred candidate in 2002. Q. Okay. So let's just say zero and zero. Now, in 2002 the candidate with the highest estimated level of support amongst black voters is Graham at about 31.9 percent; is that right? A. Yes. Q. Okay. And we know to a degree of statistical certitude that Graham received the highest level of black support, correct? A. No. Q. No? A. Butler is Butler's upper confidence
8 9 10 11 12 13 14 15 16 17	for whites, which is Lentz, that difference is statistically significant, correct? A. Yes. Q. So using this decision rule of statistical significance, we know that Garofalo and Hogshead were the top two voters top two candidates for white voters to a degree of statistical certitude, correct? A. Yes. Q. Okay. Could we record that. A. (The witness complied.) Q. And who, amongst these candidates, was	7 8 9 10 11 12 13 14 15 16 17	A. There is no white-preferred candidate in 2002. Q. Okay. So let's just say zero and zero. Now, in 2002 the candidate with the highest estimated level of support amongst black voters is Graham at about 31.9 percent; is that right? A. Yes. Q. Okay. And we know to a degree of statistical certitude that Graham received the highest level of black support, correct? A. No. Q. No? A. Butler is Butler's upper confidence interval is
8 9 10 11 12 13 14 15 16 17 18 19	for whites, which is Lentz, that difference is statistically significant, correct? A. Yes. Q. So using this decision rule of statistical significance, we know that Garofalo and Hogshead were the top two voters top two candidates for white voters to a degree of statistical certitude, correct? A. Yes. Q. Okay. Could we record that. A. (The witness complied.) Q. And who, amongst these candidates, was elected?	7 8 9 10 11 12 13 14 15 16 17 18	A. There is no white-preferred candidate in 2002. Q. Okay. So let's just say zero and zero. Now, in 2002 the candidate with the highest estimated level of support amongst black voters is Graham at about 31.9 percent; is that right? A. Yes. Q. Okay. And we know to a degree of statistical certitude that Graham received the highest level of black support, correct? A. No. Q. No? A. Butler is Butler's upper confidence interval is Q. Oh. Yes.
8 9 10 11 12 13 14 15 16 17 18 19 20	for whites, which is Lentz, that difference is statistically significant, correct? A. Yes. Q. So using this decision rule of statistical significance, we know that Garofalo and Hogshead were the top two voters top two candidates for white voters to a degree of statistical certitude, correct? A. Yes. Q. Okay. Could we record that. A. (The witness complied.) Q. And who, amongst these candidates, was elected? A. I'm sorry. The two were Garofalo and	7 8 9 10 11 12 13 14 15 16 17 18 19 20	A. There is no white-preferred candidate in 2002. Q. Okay. So let's just say zero and zero. Now, in 2002 the candidate with the highest estimated level of support amongst black voters is Graham at about 31.9 percent; is that right? A. Yes. Q. Okay. And we know to a degree of statistical certitude that Graham received the highest level of black support, correct? A. No. Q. No? A. Butler is Butler's upper confidence interval is Q. Oh. Yes. A is there, so
8 9 10 11 12 13 14 15 16 17 18 19 20 21	for whites, which is Lentz, that difference is statistically significant, correct? A. Yes. Q. So using this decision rule of statistical significance, we know that Garofalo and Hogshead were the top two voters top two candidates for white voters to a degree of statistical certitude, correct? A. Yes. Q. Okay. Could we record that. A. (The witness complied.) Q. And who, amongst these candidates, was elected? A. I'm sorry. The two were Garofalo and Hogshead. These are long-term incumbents who are	7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	A. There is no white-preferred candidate in 2002. Q. Okay. So let's just say zero and zero. Now, in 2002 the candidate with the highest estimated level of support amongst black voters is Graham at about 31.9 percent; is that right? A. Yes. Q. Okay. And we know to a degree of statistical certitude that Graham received the highest level of black support, correct? A. No. Q. No? A. Butler is Butler's upper confidence interval is Q. Oh. Yes. A is there, so Q. I see that.
8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	for whites, which is Lentz, that difference is statistically significant, correct? A. Yes. Q. So using this decision rule of statistical significance, we know that Garofalo and Hogshead were the top two voters top two candidates for white voters to a degree of statistical certitude, correct? A. Yes. Q. Okay. Could we record that. A. (The witness complied.) Q. And who, amongst these candidates, was elected? A. I'm sorry. The two were Garofalo and Hogshead. These are long-term incumbents who are frequently re-elected, so yes.	7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	A. There is no white-preferred candidate in 2002. Q. Okay. So let's just say zero and zero. Now, in 2002 the candidate with the highest estimated level of support amongst black voters is Graham at about 31.9 percent; is that right? A. Yes. Q. Okay. And we know to a degree of statistical certitude that Graham received the highest level of black support, correct? A. No. Q. No? A. Butler is Butler's upper confidence interval is Q. Oh. Yes. A is there, so Q. I see that. A. So this is a two-seat election, though, and

1	Page 197		Page 199
	the highest level, we established, at 31.9 percent amongst	1	analysis, we know that Graham and Butler are the top two
2	black voters, right?	2	ranked candidates among black voters, correct?
3	A. Yes.	3	A. Yes.
4	Q. And Butler is second at about 25.1 percent of	4	Q. Okay. So let's record Graham and Butler.
5	black votes, if we round?	5	A. (The witness complied.)
6	A. I'll need to look at the table.	6	Q. And as to whether or not Clark is the third
7	Q. Sure.	7	ranked candidate among black voters, her level of support
8	A. Okay. So the question here is?	8	or I don't know if it's a
9	Q. Butler's estimated level of support amongst	9	A. His.
10	black voters, according to you, is about 25.1 percent of	10	Q. It's a him. His level of support is
11	black votes; is that correct?	11	statistically indistinguishable when you look at the
12	A. 25 percent, yes.	12	confidence intervals of the remaining three candidates,
13	Q. Okay. And the third highest ranked candidate,	13	Knorr, Morie and Fletcher, correct?
14	according to your estimates, is Clark at about 12.5, 12.6	14	A. That is correct.
15	percent of black votes, correct?	15	Q. Okay. So using this decision rule, we don't
16	A. Yes.	16	have a third black-preferred candidate, correct?
17	Q. And the difference here is statistically	17	A. Correct.
18	significant between Graham and Butler and Clark between	18	Q. We have two black-preferred candidates, and I
19	Graham and Butler, on the one hand, and Clark. The point	19	believe Graham was successful, but not Butler, correct?
20	estimates for Graham and Butler lie outside of the	20	A. Correct.
21	confidence interval for Clark amongst black voters,	21	Q. And so the record is clear, both Graham and
22	Correct?	22	Butler are African-American, correct?
23 24	A. Something I need to clarify here is that as I	23	A. Yes.
25	described earlier when we were going through the analysis of turnout, when we looked at the overlapping confidence	25	Q. Okay. And we already did white voters for 2002, so let's look at 2003. Now, here you have three
	or tarriout, when we looked at the overlapping confidence	25	2002, 30 let 3 look at 2003. Now, here you have three
	Page 198		Page 200
1	intervals and we talked about a point estimate being just	1	candidates for two seats, right, in 2003?
2	inside a confidence interval, what I said is that I did	2	A. Yes.
3	not conduct a statistical test of to make sure of	3	
3		"	MS. ORMSBY: Can I stop you right here? You
4	this is a rule of thumb.	4	put this in 2003 and it should be here. I just don't I
	this is a rule of thumb. Q. Yeah.	4 5	put this in 2003 and it should be here. I just don't I want it
4 5 6	Q. Yeah.A. So when we get on the razor's edge where	4 5 6	put this in 2003 and it should be here. I just don't I want it Q. Thank you, Cindy. I appreciate that. That
4 5 6 7	Q. Yeah.A. So when we get on the razor's edge where something where there's a point estimate that is barely	4 5 6 7	put this in 2003 and it should be here. I just don't I want it Q. Thank you, Cindy. I appreciate that. That line that you drew, I think you meant for the white side
4 5 6 7 8	Q. Yeah. A. So when we get on the razor's edge where something where there's a point estimate that is barely within the confidence interval, we should start putting	4 5 6 7 8	put this in 2003 and it should be here. I just don't I want it Q. Thank you, Cindy. I appreciate that. That line that you drew, I think you meant for the white side of 2002.
4 5 6 7 8	Q. Yeah. A. So when we get on the razor's edge where something where there's a point estimate that is barely within the confidence interval, we should start putting asterisks or something, because some of these, it's	4 5 6 7 8	put this in 2003 and it should be here. I just don't I want it Q. Thank you, Cindy. I appreciate that. That line that you drew, I think you meant for the white side of 2002. A. Okay. Let me fix this. So I'm sorry.
4 5 6 7 8 9	Q. Yeah. A. So when we get on the razor's edge where something where there's a point estimate that is barely within the confidence interval, we should start putting asterisks or something, because some of these, it's unclear. I cannot say with certainty whether these are	4 5 6 7 8 9	put this in 2003 and it should be here. I just don't I want it Q. Thank you, Cindy. I appreciate that. That line that you drew, I think you meant for the white side of 2002. A. Okay. Let me fix this. So I'm sorry. Just
4 5 6 7 8 9 10	Q. Yeah. A. So when we get on the razor's edge where something where there's a point estimate that is barely within the confidence interval, we should start putting asterisks or something, because some of these, it's unclear. I cannot say with certainty whether these are significant or not.	4 5 6 7 8 9 10	put this in 2003 and it should be here. I just don't I want it Q. Thank you, Cindy. I appreciate that. That line that you drew, I think you meant for the white side of 2002. A. Okay. Let me fix this. So I'm sorry. Just MS. ORMSBY: This should be two, one here and
4 5 6 7 8 9 10 11 12	 Q. Yeah. A. So when we get on the razor's edge where something where there's a point estimate that is barely within the confidence interval, we should start putting asterisks or something, because some of these, it's unclear. I cannot say with certainty whether these are significant or not. Q. Okay. I understand. 	4 5 6 7 8 9 10 11	put this in 2003 and it should be here. I just don't I want it Q. Thank you, Cindy. I appreciate that. That line that you drew, I think you meant for the white side of 2002. A. Okay. Let me fix this. So I'm sorry. Just MS. ORMSBY: This should be two, one here and this should be zero, zero.
4 5 6 7 8 9 10 11 12 13	 Q. Yeah. A. So when we get on the razor's edge where something where there's a point estimate that is barely within the confidence interval, we should start putting asterisks or something, because some of these, it's unclear. I cannot say with certainty whether these are significant or not. Q. Okay. I understand. A. I just wanted that to be clear on the record. 	4 5 6 7 8 9 10 11 12 13	put this in 2003 and it should be here. I just don't I want it Q. Thank you, Cindy. I appreciate that. That line that you drew, I think you meant for the white side of 2002. A. Okay. Let me fix this. So I'm sorry. Just MS. ORMSBY: This should be two, one here and this should be zero, zero. A. Oh, this just needs to move up. Right. Okay.
4 5 6 7 8 9 10 11 12 13	 Q. Yeah. A. So when we get on the razor's edge where something where there's a point estimate that is barely within the confidence interval, we should start putting asterisks or something, because some of these, it's unclear. I cannot say with certainty whether these are significant or not. Q. Okay. I understand. A. I just wanted that to be clear on the record. Q. Yes, of course. 	4 5 6 7 8 9 10 11 12 13 14	put this in 2003 and it should be here. I just don't I want it Q. Thank you, Cindy. I appreciate that. That line that you drew, I think you meant for the white side of 2002. A. Okay. Let me fix this. So I'm sorry. Just MS. ORMSBY: This should be two, one here and this should be zero, zero. A. Oh, this just needs to move up. Right. Okay. MS. ORMSBY: Now we're on 2003. I'm sorry to
4 5 6 7 8 9 10 11 12 13 14	 Q. Yeah. A. So when we get on the razor's edge where something where there's a point estimate that is barely within the confidence interval, we should start putting asterisks or something, because some of these, it's unclear. I cannot say with certainty whether these are significant or not. Q. Okay. I understand. A. I just wanted that to be clear on the record. Q. Yes, of course. A. But we can continue. 	4 5 6 7 8 9 10 11 12 13 14	put this in 2003 and it should be here. I just don't I want it Q. Thank you, Cindy. I appreciate that. That line that you drew, I think you meant for the white side of 2002. A. Okay. Let me fix this. So I'm sorry. Just MS. ORMSBY: This should be two, one here and this should be zero, zero. A. Oh, this just needs to move up. Right. Okay. MS. ORMSBY: Now we're on 2003. I'm sorry to interrupt.
4 5 6 7 8 9 10 11 12 13	 Q. Yeah. A. So when we get on the razor's edge where something where there's a point estimate that is barely within the confidence interval, we should start putting asterisks or something, because some of these, it's unclear. I cannot say with certainty whether these are significant or not. Q. Okay. I understand. A. I just wanted that to be clear on the record. Q. Yes, of course. 	4 5 6 7 8 9 10 11 12 13 14	put this in 2003 and it should be here. I just don't I want it Q. Thank you, Cindy. I appreciate that. That line that you drew, I think you meant for the white side of 2002. A. Okay. Let me fix this. So I'm sorry. Just MS. ORMSBY: This should be two, one here and this should be zero, zero. A. Oh, this just needs to move up. Right. Okay. MS. ORMSBY: Now we're on 2003. I'm sorry to interrupt. Q. No, I appreciate you doing that. Thank you.
4 5 6 7 8 9 10 11 12 13 14 15 16	 Q. Yeah. A. So when we get on the razor's edge where something where there's a point estimate that is barely within the confidence interval, we should start putting asterisks or something, because some of these, it's unclear. I cannot say with certainty whether these are significant or not. Q. Okay. I understand. A. I just wanted that to be clear on the record. Q. Yes, of course. A. But we can continue. Q. But just to be clear, the point estimates of 	4 5 6 7 8 9 10 11 12 13 14 15 16	put this in 2003 and it should be here. I just don't I want it Q. Thank you, Cindy. I appreciate that. That line that you drew, I think you meant for the white side of 2002. A. Okay. Let me fix this. So I'm sorry. Just MS. ORMSBY: This should be two, one here and this should be zero, zero. A. Oh, this just needs to move up. Right. Okay. MS. ORMSBY: Now we're on 2003. I'm sorry to interrupt.
4 5 6 7 8 9 10 11 12 13 14 15 16 17	 Q. Yeah. A. So when we get on the razor's edge where something where there's a point estimate that is barely within the confidence interval, we should start putting asterisks or something, because some of these, it's unclear. I cannot say with certainty whether these are significant or not. Q. Okay. I understand. A. I just wanted that to be clear on the record. Q. Yes, of course. A. But we can continue. Q. But just to be clear, the point estimates of black candidate support black voters support for Butler 	4 5 6 7 8 9 10 11 12 13 14 15 16	put this in 2003 and it should be here. I just don't I want it Q. Thank you, Cindy. I appreciate that. That line that you drew, I think you meant for the white side of 2002. A. Okay. Let me fix this. So I'm sorry. Just MS. ORMSBY: This should be two, one here and this should be zero, zero. A. Oh, this just needs to move up. Right. Okay. MS. ORMSBY: Now we're on 2003. I'm sorry to interrupt. Q. No, I appreciate you doing that. Thank you. So okay. 2003, three candidates for two seats,
4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	 Q. Yeah. A. So when we get on the razor's edge where something where there's a point estimate that is barely within the confidence interval, we should start putting asterisks or something, because some of these, it's unclear. I cannot say with certainty whether these are significant or not. Q. Okay. I understand. A. I just wanted that to be clear on the record. Q. Yes, of course. A. But we can continue. Q. But just to be clear, the point estimates of black candidate support black voters support for Butler and Graham, those are higher than the upper bound of the 	4 5 6 7 8 9 10 11 12 13 14 15 16 17	put this in 2003 and it should be here. I just don't I want it Q. Thank you, Cindy. I appreciate that. That line that you drew, I think you meant for the white side of 2002. A. Okay. Let me fix this. So I'm sorry. Just MS. ORMSBY: This should be two, one here and this should be zero, zero. A. Oh, this just needs to move up. Right. Okay. MS. ORMSBY: Now we're on 2003. I'm sorry to interrupt. Q. No, I appreciate you doing that. Thank you. So okay. 2003, three candidates for two seats, correct?
4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	 Q. Yeah. A. So when we get on the razor's edge where something where there's a point estimate that is barely within the confidence interval, we should start putting asterisks or something, because some of these, it's unclear. I cannot say with certainty whether these are significant or not. Q. Okay. I understand. A. I just wanted that to be clear on the record. Q. Yes, of course. A. But we can continue. Q. But just to be clear, the point estimates of black candidate support black voters support for Butler and Graham, those are higher than the upper bound of the confidence interval for black support for Clark, the third 	4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	put this in 2003 and it should be here. I just don't I want it Q. Thank you, Cindy. I appreciate that. That line that you drew, I think you meant for the white side of 2002. A. Okay. Let me fix this. So I'm sorry. Just MS. ORMSBY: This should be two, one here and this should be zero, zero. A. Oh, this just needs to move up. Right. Okay. MS. ORMSBY: Now we're on 2003. I'm sorry to interrupt. Q. No, I appreciate you doing that. Thank you. So okay. 2003, three candidates for two seats, correct? A. Yes.
4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	Q. Yeah. A. So when we get on the razor's edge where something where there's a point estimate that is barely within the confidence interval, we should start putting asterisks or something, because some of these, it's unclear. I cannot say with certainty whether these are significant or not. Q. Okay. I understand. A. I just wanted that to be clear on the record. Q. Yes, of course. A. But we can continue. Q. But just to be clear, the point estimates of black candidate support black voters support for Butler and Graham, those are higher than the upper bound of the confidence interval for black support for Clark, the third highest ranked candidate for blacks, correct?	4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	put this in 2003 and it should be here. I just don't I want it Q. Thank you, Cindy. I appreciate that. That line that you drew, I think you meant for the white side of 2002. A. Okay. Let me fix this. So I'm sorry. Just MS. ORMSBY: This should be two, one here and this should be zero, zero. A. Oh, this just needs to move up. Right. Okay. MS. ORMSBY: Now we're on 2003. I'm sorry to interrupt. Q. No, I appreciate you doing that. Thank you. So okay. 2003, three candidates for two seats, correct? A. Yes. Q. And we know, according to your estimate,
4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	 Q. Yeah. A. So when we get on the razor's edge where something where there's a point estimate that is barely within the confidence interval, we should start putting asterisks or something, because some of these, it's unclear. I cannot say with certainty whether these are significant or not. Q. Okay. I understand. A. I just wanted that to be clear on the record. Q. Yes, of course. A. But we can continue. Q. But just to be clear, the point estimates of black candidate support black voters support for Butler and Graham, those are higher than the upper bound of the confidence interval for black support for Clark, the third highest ranked candidate for blacks, correct? A. The yeah, Clark's upper confidence interval 	4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	put this in 2003 and it should be here. I just don't I want it Q. Thank you, Cindy. I appreciate that. That line that you drew, I think you meant for the white side of 2002. A. Okay. Let me fix this. So I'm sorry. Just MS. ORMSBY: This should be two, one here and this should be zero, zero. A. Oh, this just needs to move up. Right. Okay. MS. ORMSBY: Now we're on 2003. I'm sorry to interrupt. Q. No, I appreciate you doing that. Thank you. So okay. 2003, three candidates for two seats, correct? A. Yes. Q. And we know, according to your estimate, Thomas received about 54 percent of black votes, correct?
4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	Q. Yeah. A. So when we get on the razor's edge where something where there's a point estimate that is barely within the confidence interval, we should start putting asterisks or something, because some of these, it's unclear. I cannot say with certainty whether these are significant or not. Q. Okay. I understand. A. I just wanted that to be clear on the record. Q. Yes, of course. A. But we can continue. Q. But just to be clear, the point estimates of black candidate support black voters support for Butler and Graham, those are higher than the upper bound of the confidence interval for black support for Clark, the third highest ranked candidate for blacks, correct? A. The yeah, Clark's upper confidence interval yes, that's correct.	4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	put this in 2003 and it should be here. I just don't I want it Q. Thank you, Cindy. I appreciate that. That line that you drew, I think you meant for the white side of 2002. A. Okay. Let me fix this. So I'm sorry. Just MS. ORMSBY: This should be two, one here and this should be zero, zero. A. Oh, this just needs to move up. Right. Okay. MS. ORMSBY: Now we're on 2003. I'm sorry to interrupt. Q. No, I appreciate you doing that. Thank you. So okay. 2003, three candidates for two seats, correct? A. Yes. Q. And we know, according to your estimate, Thomas received about 54 percent of black votes, correct? A. Yes.

	Page 201		Page 203
1	Q. Okay. So under this decision rule, Thomas is	1	A. N, in this case two.
2	a black-preferred candidate?	2	Q. Yeah.
3	A. Yes.	3	A. So we are determining that Gwen Thomas is
4	Q. And Knorr you estimate as the second highest	4	that her point estimate is statistically so yeah, the
5	level of support amongst blacks at 30 about 30.2	5	comparison is not between number two and number three. In
6	percent, correct?	6	this case it's between number one and number three, and
7	A. Yes.	7	you're pointing out that Lentz is statistically
8	Q. And that's less than two-thirds of the level	8	significantly different from Gwen Thomas.
9	of support amongst black voters that you estimate for	9	Q. Uh-huh.
10	Thomas, correct?	10	A. Okay. So hopefully, yeah, I think that's I
11	A. Yes.	11	understand that.
12	Q. Okay. And fair to say that Tomas received	12	Q. So we have Thomas, right, as a black-preferred
13	substantially more support than Knorr amongst black	13	candidate, but we just don't know if Knorr or Lentz is,
14	voters?	14	correct?
15	A. Sure.	15	A. By this approach, yes.
16	Q. And as between Lentz and Knorr, the remaining	16	Q. Okay. So one black-preferred candidate and
17	candidates, do we know, using that rule of thumb for	17	Thomas was elected, so successful, correct?
18	statistical significance, whether or not Lentz or Knorr	18	A. Yes.
19	was the second highest candidate for blacks?	19	Q. Now, amongst white voters we know that the top
20	A. No.	20	choice was Knorr with about 52.1 percent of white votes
21	Q. So let's use the decision rule and say one	21	cast, correct?
22	preferred candidate, Thomas, and successful, because	22	A. Yes.
23	Thomas was elected, correct?	23	Q. And we know, to a degree of statistical
24	MS. ORMSBY: Can I ask for clarification,	24	significance, that Knorr was the top preferred white
25	please?	25	candidate, correct?
	Page 202		Page 204
1	MR. HO: Sure.	1	A. Yes.
2	MS. ORMSBY: Maybe I'm not following. That is	2	Q. What about Lentz, do we know whether or not
3	very possible. Knorr got 30 percent, and do we look to	3	Lentz, who is the second preferred candidate here for
4	see if that's within the range of Lentz, which is 21	4	whites according to your estimates, if Lentz had a
5	percent to 11 percent, so that's outside that, so wouldn't	5	statistically significantly higher rate of white support
6	that be significant statistically significant and make	6	as compared to Thomas?
7	Knorr the second minority-preferred candidate? Aren't we	7	A. No, we don't.
8	looking to see whether that percentage is in the next	8	Q. Okay. So one white-preferred candidate, one
9	lowest candidate's range?	9	candidate successful, because Knorr was elected? And for
10	MR. HO: Well, Lentz's point estimate lies	10	the record, Thomas is black and Knorr is white, correct?
11	within Knorr's confidence interval, which is quite broad.	11	A. Correct.
11 12	within Knorr's confidence interval, which is quite broad. MS. ORMSBY: Okay. I see.	11 12	A. Correct.Q. Okay. Let's look at 2004. There were two
	•		
12	MS. ORMSBY: Okay. I see.	12	Q. Okay. Let's look at 2004. There were two
12 13	MS. ORMSBY: Okay. I see. MR. HO: So that's what I was assuming.	12 13	Q. Okay. Let's look at 2004. There were two seats in this election, right?
12 13 14	MS. ORMSBY: Okay. I see. MR. HO: So that's what I was assuming. MS. ORMSBY: Okay. That's fine.	12 13 14	Q. Okay. Let's look at 2004. There were two seats in this election, right? A. Yes.
12 13 14 15	MS. ORMSBY: Okay. I see. MR. HO: So that's what I was assuming. MS. ORMSBY: Okay. That's fine. MR. HO: But if Professor Rodden has a	12 13 14 15	 Q. Okay. Let's look at 2004. There were two seats in this election, right? A. Yes. Q. Van and McClendon were the highest ranked
12 13 14 15 16	MS. ORMSBY: Okay. I see. MR. HO: So that's what I was assuming. MS. ORMSBY: Okay. That's fine. MR. HO: But if Professor Rodden has a different interpretation MS. ORMSBY: It's probably me, Dale. Sorry. MR. HO: I'm not an expert on this stuff	12 13 14 15 16	 Q. Okay. Let's look at 2004. There were two seats in this election, right? A. Yes. Q. Van and McClendon were the highest ranked voters (sic) amongst black voters correct?
12 13 14 15 16 17 18 19	MS. ORMSBY: Okay. I see. MR. HO: So that's what I was assuming. MS. ORMSBY: Okay. That's fine. MR. HO: But if Professor Rodden has a different interpretation MS. ORMSBY: It's probably me, Dale. Sorry.	12 13 14 15 16 17	 Q. Okay. Let's look at 2004. There were two seats in this election, right? A. Yes. Q. Van and McClendon were the highest ranked voters (sic) amongst black voters correct? A. Yes.
12 13 14 15 16 17 18 19 20	MS. ORMSBY: Okay. I see. MR. HO: So that's what I was assuming. MS. ORMSBY: Okay. That's fine. MR. HO: But if Professor Rodden has a different interpretation MS. ORMSBY: It's probably me, Dale. Sorry. MR. HO: I'm not an expert on this stuff either. That's why we have him here. A. I'm still trying to understand the decision	12 13 14 15 16 17 18	Q. Okay. Let's look at 2004. There were two seats in this election, right? A. Yes. Q. Van and McClendon were the highest ranked voters (sic) amongst black voters correct? A. Yes. Q. And Van got about 28.7 of black votes, and
12 13 14 15 16 17 18 19 20 21	MS. ORMSBY: Okay. I see. MR. HO: So that's what I was assuming. MS. ORMSBY: Okay. That's fine. MR. HO: But if Professor Rodden has a different interpretation MS. ORMSBY: It's probably me, Dale. Sorry. MR. HO: I'm not an expert on this stuff either. That's why we have him here. A. I'm still trying to understand the decision rule. So just again, to repeat, the decision rule we are	12 13 14 15 16 17 18 19 20 21	Q. Okay. Let's look at 2004. There were two seats in this election, right? A. Yes. Q. Van and McClendon were the highest ranked voters (sic) amongst black voters correct? A. Yes. Q. And Van got about 28.7 of black votes, and McClendon got about 28.3 percent of black votes? A. Yes. Q. Okay. And those two are clearly, when you
12 13 14 15 16 17 18 19 20 21 22	MS. ORMSBY: Okay. I see. MR. HO: So that's what I was assuming. MS. ORMSBY: Okay. That's fine. MR. HO: But if Professor Rodden has a different interpretation MS. ORMSBY: It's probably me, Dale. Sorry. MR. HO: I'm not an expert on this stuff either. That's why we have him here. A. I'm still trying to understand the decision rule. So just again, to repeat, the decision rule we are currently playing around with is that the is that the	12 13 14 15 16 17 18 19 20 21 22	Q. Okay. Let's look at 2004. There were two seats in this election, right? A. Yes. Q. Van and McClendon were the highest ranked voters (sic) amongst black voters correct? A. Yes. Q. And Van got about 28.7 of black votes, and McClendon got about 28.3 percent of black votes? A. Yes. Q. Okay. And those two are clearly, when you take the confidence intervals into account, the two
12 13 14 15 16 17 18 19 20 21 22 23	MS. ORMSBY: Okay. I see. MR. HO: So that's what I was assuming. MS. ORMSBY: Okay. That's fine. MR. HO: But if Professor Rodden has a different interpretation MS. ORMSBY: It's probably me, Dale. Sorry. MR. HO: I'm not an expert on this stuff either. That's why we have him here. A. I'm still trying to understand the decision rule. So just again, to repeat, the decision rule we are currently playing around with is that the is that the top candidate, the point estimate for the top candidate is	12 13 14 15 16 17 18 19 20 21 22 23	Q. Okay. Let's look at 2004. There were two seats in this election, right? A. Yes. Q. Van and McClendon were the highest ranked voters (sic) amongst black voters correct? A. Yes. Q. And Van got about 28.7 of black votes, and McClendon got about 28.3 percent of black votes? A. Yes. Q. Okay. And those two are clearly, when you take the confidence intervals into account, the two highest preferred candidates amongst black voters, right?
12 13 14 15 16 17 18 19 20 21 22	MS. ORMSBY: Okay. I see. MR. HO: So that's what I was assuming. MS. ORMSBY: Okay. That's fine. MR. HO: But if Professor Rodden has a different interpretation MS. ORMSBY: It's probably me, Dale. Sorry. MR. HO: I'm not an expert on this stuff either. That's why we have him here. A. I'm still trying to understand the decision rule. So just again, to repeat, the decision rule we are currently playing around with is that the is that the	12 13 14 15 16 17 18 19 20 21 22	Q. Okay. Let's look at 2004. There were two seats in this election, right? A. Yes. Q. Van and McClendon were the highest ranked voters (sic) amongst black voters correct? A. Yes. Q. And Van got about 28.7 of black votes, and McClendon got about 28.3 percent of black votes? A. Yes. Q. Okay. And those two are clearly, when you take the confidence intervals into account, the two

	Page 205		Page 207
1	A. (The witness complied.)	1	Q. And so that would mean two, according to this
2	Q. So we have two black-preferred candidates,	2	decision rule, two black-preferred candidates in 2006,
3	using this decision rule, and neither were successful,	3	correct?
4	correct?	4	A. Correct.
5	A. Correct.	5	Q. And neither of them were elected; is that
6	Q. And Van and McClendon, for the record, are	6	correct?
7	both African-American, correct?	7	A. Correct.
8	A. Correct.	8	Q. Okay. Amongst white voters in 2006, Schroeder
9	Q. Okay. For white voters the top choices are	9	and Knowles received the highest levels of support,
10	Hogshead at 30.1 percent, and Garofalo at 39.3 percent of	10	correct?
11	white voters, according to your estimates, correct?	11	A. Yes.
12	A. Yes.	12	Q. Schroeder at about 38 percent, and Knowles at
		13	•
13	Q. And third place amongst white voters,	14	about 27 percent of white votes, correct? A. Correct.
14	according to your estimates, is Van at 11.7 percent of		
15	white votes, correct?	15	Q. And the third highest ranked candidate amongst
16	A. Correct.	16	whites is Knorr at about 16 percent, correct?
17	Q. Statistically significant difference, correct?	17	A. Correct.
18	A. Yes.	18	Q. And Schroeder and Knowles, the point estimates
19	Q. Okay. So using this decision rule of	19	of white support for them are higher than the upper bound
20	statistical significance, two white-preferred candidates,	20	of the confidence interval for white support for Knorr,
21	Garofalo and Hogshead, and both were elected, correct?	21	correct?
22	A. Uh-huh.	22	A. Yes.
23	Q. Okay. And for the record, Garofalo and	23	Q. So using this decision rule of statistical
24	Hogshead are both white, correct?	24	significance, we know that Schroeder and Knowles were the
25	A. Correct.	25	top-ranked white candidates, correct?
1	Page 206 Q. Okay. Let's look at 2006. Amongst black	1	Page 208 A. Correct.
2	voters the top two choices are Thomas and Washington,	2	Q. So again, using this decision rule, we would
3	correct?	3	say there are two white-preferred candidates, correct?
4	A. Correct.	4	A. Correct.
5	Q. And Thomas has 28.2 percent of black votes,	5	Q. And both were elected, correct?
6	according to your estimates, and Washington has about 25.1	6	A. Correct.
7	percent of black votes, according to your estimates,	7	Q. Okay. Now, in 2007 there was no election,
8	correct?	8	correct?
9	A. Yes.	9	A. Correct.
10	Q. And the next highest candidate estimated in	10	Q. And there's no data to report in terms of
11	terms of black support estimated black support is	11	voting patterns for that election, correct?
12	Knorr; is that correct?	12	A. Correct.
13	A. Yes.	13	Q. Now, if you did report it, you would note that
		1 10	
		14	Garofalo and Hogshead retained their seats without
14	Q. And the point estimates for Thomas and	14 15	Garofalo and Hogshead retained their seats without opposition in 2007, correct?
14 15	Q. And the point estimates for Thomas and Washington are higher than the upper bound of the	15	opposition in 2007, correct?
14 15 16	Q. And the point estimates for Thomas and Washington are higher than the upper bound of the confidence interval for Knorr; is that correct?	15 16	opposition in 2007, correct? A. Right.
14 15 16 17	Q. And the point estimates for Thomas and Washington are higher than the upper bound of the confidence interval for Knorr; is that correct? A. Yes.	15 16 17	opposition in 2007, correct? A. Right. Q. And both of them are white, correct?
14 15 16 17 18	 Q. And the point estimates for Thomas and Washington are higher than the upper bound of the confidence interval for Knorr; is that correct? A. Yes. Q. So using statistical significance as the 	15 16 17 18	opposition in 2007, correct? A. Right. Q. And both of them are white, correct? A. Correct.
14 15 16 17 18 19	 Q. And the point estimates for Thomas and Washington are higher than the upper bound of the confidence interval for Knorr; is that correct? A. Yes. Q. So using statistical significance as the decision rule here, we know that African-American voters 	15 16 17 18 19	opposition in 2007, correct? A. Right. Q. And both of them are white, correct? A. Correct. Q. Now, just using I mean using the definition
14 15 16 17 18 19 20	 Q. And the point estimates for Thomas and Washington are higher than the upper bound of the confidence interval for Knorr; is that correct? A. Yes. Q. So using statistical significance as the decision rule here, we know that African-American voters preferred Thomas and Washington at a statistically 	15 16 17 18 19 20	opposition in 2007, correct? A. Right. Q. And both of them are white, correct? A. Correct. Q. Now, just using I mean using the definition that we're adopting for purposes of Exhibit 13, defining
14 15 16 17 18 19 20 21	Q. And the point estimates for Thomas and Washington are higher than the upper bound of the confidence interval for Knorr; is that correct? A. Yes. Q. So using statistical significance as the decision rule here, we know that African-American voters preferred Thomas and Washington at a statistically significant higher rate than any other candidate in 2006,	15 16 17 18 19 20 21	opposition in 2007, correct? A. Right. Q. And both of them are white, correct? A. Correct. Q. Now, just using I mean using the definition that we're adopting for purposes of Exhibit 13, defining candidate support or preferred candidate status in terms
14 15 16 17 18 19 20 21 22	Q. And the point estimates for Thomas and Washington are higher than the upper bound of the confidence interval for Knorr; is that correct? A. Yes. Q. So using statistical significance as the decision rule here, we know that African-American voters preferred Thomas and Washington at a statistically significant higher rate than any other candidate in 2006, correct?	15 16 17 18 19 20 21 22	opposition in 2007, correct? A. Right. Q. And both of them are white, correct? A. Correct. Q. Now, just using I mean using the definition that we're adopting for purposes of Exhibit 13, defining candidate support or preferred candidate status in terms of statistical significance, neither Garofalo nor Hogshead
14 15 16 17 18 19 20 21 22 23	Q. And the point estimates for Thomas and Washington are higher than the upper bound of the confidence interval for Knorr; is that correct? A. Yes. Q. So using statistical significance as the decision rule here, we know that African-American voters preferred Thomas and Washington at a statistically significant higher rate than any other candidate in 2006, correct? A. You said Washington and Thomas?	15 16 17 18 19 20 21 22 23	opposition in 2007, correct? A. Right. Q. And both of them are white, correct? A. Correct. Q. Now, just using I mean using the definition that we're adopting for purposes of Exhibit 13, defining candidate support or preferred candidate status in terms of statistical significance, neither Garofalo nor Hogshead has ever been a black-preferred candidate, correct?
14 15 16 17 18 19 20 21 22	Q. And the point estimates for Thomas and Washington are higher than the upper bound of the confidence interval for Knorr; is that correct? A. Yes. Q. So using statistical significance as the decision rule here, we know that African-American voters preferred Thomas and Washington at a statistically significant higher rate than any other candidate in 2006, correct?	15 16 17 18 19 20 21 22	opposition in 2007, correct? A. Right. Q. And both of them are white, correct? A. Correct. Q. Now, just using I mean using the definition that we're adopting for purposes of Exhibit 13, defining candidate support or preferred candidate status in terms of statistical significance, neither Garofalo nor Hogshead

	Page 209		Page 211
1	some other confidence interval, then yes, then Hogshead	1	black-preferred candidate in 2007, using this decision
2	would be considered a candidate of choice, so there's a	2	rule of point estimates, you would sort of impute
3	razor's edge decision here that and we are using the	3	backwards the fact that she was the second preferred black
4	confidence intervals as a rule of thumb, not knowing	4	candidate in 2013 to black preferences in 2007, Dr.
5	not having done the test of statistical significance. So	5	Rodden?
6	it is what it is. Hogshead, under the rules that have	6	A. I don't believe I said that.
7	been applied in Exhibit 13, falls just short of being a	7	Q. If you were if you were to describe her as
8	minority candidate of choice.	8	a black-preferred candidate in 2007, the way you would do
9	Q. Okay.	9	that would be by imputing her level of support amongst
10	A. As far as I understand. We have not gone to	10	black voters in 2013 backwards six years to 2007; is that
11	2013 yet.	11	right, Dr. Rodden? Because you identified the fact that
12	Q. Yeah, yeah. I'm sorry. And I'm sorry if my	12	she was, in your view, black-preferred in 2013 as relevant
13	question wasn't clear. I mean in previous elections prior	13	to this assessment.
14	to 2007. Using the decision rule employed in Exhibit 13,	14	A. I do believe it's relevant, but it is you
15	neither Hogshead nor Garofalo has been a	15	are suggesting a decision rule in which you're asking
16	minority-preferred candidate of choice, correct?	16	how we should think about elections that didn't happen,
17	A. Previously previously in this figure, that	17	and there are a number of ways we could do that. You
18	is correct.	18	asked me if she had been a candidate of choice prior to
19	Q. Okay. And can you pull out Rodden Exhibit 12?	19	2007, and the answer is no. I interjected that if the
20	This was the chart where we defined the minority-preferred	20	question was was she ever a candidate of choice, you asked
21	candidates based purely on the point estimates, okay? So	21	me to look at Exhibit 12, and the answer, using Exhibit
22	just using the top two point estimates in two-seat	22	12, would be yes. That's all I meant to say.
23	elections.	23	Q. So she's run in contested elections three
24	A. Yes.	24	times, 2001, 2004 and 2013, correct?
25	Q. So Garofalo and Hogshead ran in 2004, correct?	25	A. That sounds right.
	Page 210		Page 212
			•
1	A. Yes.	1	Q. And using the point estimates, you would say
1 2	A. Yes.Q. And neither of them were the	2	
	Q. And neither of them were the minority-preferred candidates just in terms of having the	2	Q. And using the point estimates, you would say
2 3 4	Q. And neither of them were the minority-preferred candidates just in terms of having the highest point estimates in 2004, correct?	2 3 4	Q. And using the point estimates, you would say she was a black candidate of choice in one out of those three elections, correct, 2013? A. Using the point estimate approach, I would say
2 3 4 5	Q. And neither of them were the minority-preferred candidates just in terms of having the highest point estimates in 2004, correct? A. Correct.	2 3 4 5	Q. And using the point estimates, you would say she was a black candidate of choice in one out of those three elections, correct, 2013? A. Using the point estimate approach, I would say she was a candidate of choice in one of those three, yes.
2 3 4 5 6	 Q. And neither of them were the minority-preferred candidates just in terms of having the highest point estimates in 2004, correct? A. Correct. Q. And they also ran in 2001, correct? 	2 3 4 5 6	Q. And using the point estimates, you would say she was a black candidate of choice in one out of those three elections, correct, 2013? A. Using the point estimate approach, I would say she was a candidate of choice in one of those three, yes. Q. Okay. So because she was a candidate of
2 3 4 5 6 7	 Q. And neither of them were the minority-preferred candidates just in terms of having the highest point estimates in 2004, correct? A. Correct. Q. And they also ran in 2001, correct? A. Yes. 	2 3 4 5 6 7	Q. And using the point estimates, you would say she was a black candidate of choice in one out of those three elections, correct, 2013? A. Using the point estimate approach, I would say she was a candidate of choice in one of those three, yes. Q. Okay. So because she was a candidate of choice, using the point estimate approach, one out of
2 3 4 5 6 7 8	 Q. And neither of them were the minority-preferred candidates just in terms of having the highest point estimates in 2004, correct? A. Correct. Q. And they also ran in 2001, correct? A. Yes. Q. And Hogshead was not amongst the two 	2 3 4 5 6 7 8	Q. And using the point estimates, you would say she was a black candidate of choice in one out of those three elections, correct, 2013? A. Using the point estimate approach, I would say she was a candidate of choice in one of those three, yes. Q. Okay. So because she was a candidate of choice, using the point estimate approach, one out of three times in which she ran for office and was not a
2 3 4 5 6 7 8	 Q. And neither of them were the minority-preferred candidates just in terms of having the highest point estimates in 2004, correct? A. Correct. Q. And they also ran in 2001, correct? A. Yes. Q. And Hogshead was not amongst the two black-preferred candidates in 2001 using the point 	2 3 4 5 6 7 8	Q. And using the point estimates, you would say she was a black candidate of choice in one out of those three elections, correct, 2013? A. Using the point estimate approach, I would say she was a candidate of choice in one of those three, yes. Q. Okay. So because she was a candidate of choice, using the point estimate approach, one out of three times in which she ran for office and was not a candidate of choice two out of three times in which she
2 3 4 5 6 7 8 9	 Q. And neither of them were the minority-preferred candidates just in terms of having the highest point estimates in 2004, correct? A. Correct. Q. And they also ran in 2001, correct? A. Yes. Q. And Hogshead was not amongst the two black-preferred candidates in 2001 using the point estimates to define preferred candidate status, correct? 	2 3 4 5 6 7 8 9	Q. And using the point estimates, you would say she was a black candidate of choice in one out of those three elections, correct, 2013? A. Using the point estimate approach, I would say she was a candidate of choice in one of those three, yes. Q. Okay. So because she was a candidate of choice, using the point estimate approach, one out of three times in which she ran for office and was not a candidate of choice two out of three times in which she ran for office, you're describing her in 2007 as a
2 3 4 5 6 7 8 9 10	 Q. And neither of them were the minority-preferred candidates just in terms of having the highest point estimates in 2004, correct? A. Correct. Q. And they also ran in 2001, correct? A. Yes. Q. And Hogshead was not amongst the two black-preferred candidates in 2001 using the point estimates to define preferred candidate status, correct? A. Correct. 	2 3 4 5 6 7 8 9 10	Q. And using the point estimates, you would say she was a black candidate of choice in one out of those three elections, correct, 2013? A. Using the point estimate approach, I would say she was a candidate of choice in one of those three, yes. Q. Okay. So because she was a candidate of choice, using the point estimate approach, one out of three times in which she ran for office and was not a candidate of choice two out of three times in which she ran for office, you're describing her in 2007 as a black-preferred candidate, correct?
2 3 4 5 6 7 8 9 10 11	 Q. And neither of them were the minority-preferred candidates just in terms of having the highest point estimates in 2004, correct? A. Correct. Q. And they also ran in 2001, correct? A. Yes. Q. And Hogshead was not amongst the two black-preferred candidates in 2001 using the point estimates to define preferred candidate status, correct? A. Correct. Q. Okay. 	2 3 4 5 6 7 8 9 10 11	Q. And using the point estimates, you would say she was a black candidate of choice in one out of those three elections, correct, 2013? A. Using the point estimate approach, I would say she was a candidate of choice in one of those three, yes. Q. Okay. So because she was a candidate of choice, using the point estimate approach, one out of three times in which she ran for office and was not a candidate of choice two out of three times in which she ran for office, you're describing her in 2007 as a black-preferred candidate, correct? A. Right now am I doing that?
2 3 4 5 6 7 8 9 10 11 12 13	 Q. And neither of them were the minority-preferred candidates just in terms of having the highest point estimates in 2004, correct? A. Correct. Q. And they also ran in 2001, correct? A. Yes. Q. And Hogshead was not amongst the two black-preferred candidates in 2001 using the point estimates to define preferred candidate status, correct? A. Correct. Q. Okay. A. But she was, by this standard, a candidate of 	2 3 4 5 6 7 8 9 10 11 12 13	Q. And using the point estimates, you would say she was a black candidate of choice in one out of those three elections, correct, 2013? A. Using the point estimate approach, I would say she was a candidate of choice in one of those three, yes. Q. Okay. So because she was a candidate of choice, using the point estimate approach, one out of three times in which she ran for office and was not a candidate of choice two out of three times in which she ran for office, you're describing her in 2007 as a black-preferred candidate, correct? A. Right now am I doing that? Q. In your report. I mean I believe
2 3 4 5 6 7 8 9 10 11 12 13	 Q. And neither of them were the minority-preferred candidates just in terms of having the highest point estimates in 2004, correct? A. Correct. Q. And they also ran in 2001, correct? A. Yes. Q. And Hogshead was not amongst the two black-preferred candidates in 2001 using the point estimates to define preferred candidate status, correct? A. Correct. Q. Okay. A. But she was, by this standard, a candidate of choice for African-Americans in 2013, so I'm not sure why 	2 3 4 5 6 7 8 9 10 11 12 13 14	Q. And using the point estimates, you would say she was a black candidate of choice in one out of those three elections, correct, 2013? A. Using the point estimate approach, I would say she was a candidate of choice in one of those three, yes. Q. Okay. So because she was a candidate of choice, using the point estimate approach, one out of three times in which she ran for office and was not a candidate of choice two out of three times in which she ran for office, you're describing her in 2007 as a black-preferred candidate, correct? A. Right now am I doing that? Q. In your report. I mean I believe A. Can you point to a paragraph?
2 3 4 5 6 7 8 9 10 11 12 13 14 15	 Q. And neither of them were the minority-preferred candidates just in terms of having the highest point estimates in 2004, correct? A. Correct. Q. And they also ran in 2001, correct? A. Yes. Q. And Hogshead was not amongst the two black-preferred candidates in 2001 using the point estimates to define preferred candidate status, correct? A. Correct. Q. Okay. A. But she was, by this standard, a candidate of choice for African-Americans in 2013, so I'm not sure why we would value the past over the present in this in 	2 3 4 5 6 7 8 9 10 11 12 13 14	Q. And using the point estimates, you would say she was a black candidate of choice in one out of those three elections, correct, 2013? A. Using the point estimate approach, I would say she was a candidate of choice in one of those three, yes. Q. Okay. So because she was a candidate of choice, using the point estimate approach, one out of three times in which she ran for office and was not a candidate of choice two out of three times in which she ran for office, you're describing her in 2007 as a black-preferred candidate, correct? A. Right now am I doing that? Q. In your report. I mean I believe A. Can you point to a paragraph? Q. Sure.
2 3 4 5 6 7 8 9 10 11 12 13	 Q. And neither of them were the minority-preferred candidates just in terms of having the highest point estimates in 2004, correct? A. Correct. Q. And they also ran in 2001, correct? A. Yes. Q. And Hogshead was not amongst the two black-preferred candidates in 2001 using the point estimates to define preferred candidate status, correct? A. Correct. Q. Okay. A. But she was, by this standard, a candidate of choice for African-Americans in 2013, so I'm not sure why 	2 3 4 5 6 7 8 9 10 11 12 13 14	Q. And using the point estimates, you would say she was a black candidate of choice in one out of those three elections, correct, 2013? A. Using the point estimate approach, I would say she was a candidate of choice in one of those three, yes. Q. Okay. So because she was a candidate of choice, using the point estimate approach, one out of three times in which she ran for office and was not a candidate of choice two out of three times in which she ran for office, you're describing her in 2007 as a black-preferred candidate, correct? A. Right now am I doing that? Q. In your report. I mean I believe A. Can you point to a paragraph?
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	 Q. And neither of them were the minority-preferred candidates just in terms of having the highest point estimates in 2004, correct? A. Correct. Q. And they also ran in 2001, correct? A. Yes. Q. And Hogshead was not amongst the two black-preferred candidates in 2001 using the point estimates to define preferred candidate status, correct? A. Correct. Q. Okay. A. But she was, by this standard, a candidate of choice for African-Americans in 2013, so I'm not sure why we would value the past over the present in this in this setting. I think if the question is was she ever 	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	Q. And using the point estimates, you would say she was a black candidate of choice in one out of those three elections, correct, 2013? A. Using the point estimate approach, I would say she was a candidate of choice in one of those three, yes. Q. Okay. So because she was a candidate of choice, using the point estimate approach, one out of three times in which she ran for office and was not a candidate of choice two out of three times in which she ran for office, you're describing her in 2007 as a black-preferred candidate, correct? A. Right now am I doing that? Q. In your report. I mean I believe A. Can you point to a paragraph? Q. Sure. A. I'm just trying to remember what we haven't
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	 Q. And neither of them were the minority-preferred candidates just in terms of having the highest point estimates in 2004, correct? A. Correct. Q. And they also ran in 2001, correct? A. Yes. Q. And Hogshead was not amongst the two black-preferred candidates in 2001 using the point estimates to define preferred candidate status, correct? A. Correct. Q. Okay. A. But she was, by this standard, a candidate of choice for African-Americans in 2013, so I'm not sure why we would value the past over the present in this in this setting. I think if the question is was she ever a preferred candidate, the answer is yes. 	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	Q. And using the point estimates, you would say she was a black candidate of choice in one out of those three elections, correct, 2013? A. Using the point estimate approach, I would say she was a candidate of choice in one of those three, yes. Q. Okay. So because she was a candidate of choice, using the point estimate approach, one out of three times in which she ran for office and was not a candidate of choice two out of three times in which she ran for office, you're describing her in 2007 as a black-preferred candidate, correct? A. Right now am I doing that? Q. In your report. I mean I believe A. Can you point to a paragraph? Q. Sure. A. I'm just trying to remember what we haven't gone through the uncontested elections analysis yet, so I
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	 Q. And neither of them were the minority-preferred candidates just in terms of having the highest point estimates in 2004, correct? A. Correct. Q. And they also ran in 2001, correct? A. Yes. Q. And Hogshead was not amongst the two black-preferred candidates in 2001 using the point estimates to define preferred candidate status, correct? A. Correct. Q. Okay. A. But she was, by this standard, a candidate of choice for African-Americans in 2013, so I'm not sure why we would value the past over the present in this in this setting. I think if the question is was she ever a preferred candidate, the answer is yes. Q. Well, prior to 2007, correct? 	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	Q. And using the point estimates, you would say she was a black candidate of choice in one out of those three elections, correct, 2013? A. Using the point estimate approach, I would say she was a candidate of choice in one of those three, yes. Q. Okay. So because she was a candidate of choice, using the point estimate approach, one out of three times in which she ran for office and was not a candidate of choice two out of three times in which she ran for office, you're describing her in 2007 as a black-preferred candidate, correct? A. Right now am I doing that? Q. In your report. I mean I believe A. Can you point to a paragraph? Q. Sure. A. I'm just trying to remember what we haven't gone through the uncontested elections analysis yet, so I need to have a look.
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	 Q. And neither of them were the minority-preferred candidates just in terms of having the highest point estimates in 2004, correct? A. Correct. Q. And they also ran in 2001, correct? A. Yes. Q. And Hogshead was not amongst the two black-preferred candidates in 2001 using the point estimates to define preferred candidate status, correct? A. Correct. Q. Okay. A. But she was, by this standard, a candidate of choice for African-Americans in 2013, so I'm not sure why we would value the past over the present in this in this setting. I think if the question is was she ever a preferred candidate, the answer is yes. Q. Well, prior to 2007, correct? A. Okay. 	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	Q. And using the point estimates, you would say she was a black candidate of choice in one out of those three elections, correct, 2013? A. Using the point estimate approach, I would say she was a candidate of choice in one of those three, yes. Q. Okay. So because she was a candidate of choice, using the point estimate approach, one out of three times in which she ran for office and was not a candidate of choice two out of three times in which she ran for office, you're describing her in 2007 as a black-preferred candidate, correct? A. Right now am I doing that? Q. In your report. I mean I believe A. Can you point to a paragraph? Q. Sure. A. I'm just trying to remember what we haven't gone through the uncontested elections analysis yet, so I need to have a look. Q. You describe the 2010 election in Paragraph
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	 Q. And neither of them were the minority-preferred candidates just in terms of having the highest point estimates in 2004, correct? A. Correct. Q. And they also ran in 2001, correct? A. Yes. Q. And Hogshead was not amongst the two black-preferred candidates in 2001 using the point estimates to define preferred candidate status, correct? A. Correct. Q. Okay. A. But she was, by this standard, a candidate of choice for African-Americans in 2013, so I'm not sure why we would value the past over the present in this in this setting. I think if the question is was she ever a preferred candidate, the answer is yes. Q. Well, prior to 2007, correct? A. Okay. Q. She had not been amongst the top two 	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	Q. And using the point estimates, you would say she was a black candidate of choice in one out of those three elections, correct, 2013? A. Using the point estimate approach, I would say she was a candidate of choice in one of those three, yes. Q. Okay. So because she was a candidate of choice, using the point estimate approach, one out of three times in which she ran for office and was not a candidate of choice two out of three times in which she ran for office, you're describing her in 2007 as a black-preferred candidate, correct? A. Right now am I doing that? Q. In your report. I mean I believe A. Can you point to a paragraph? Q. Sure. A. I'm just trying to remember what we haven't gone through the uncontested elections analysis yet, so I need to have a look. Q. You describe the 2010 election in Paragraph 60, and you say Leslie Hogshead was elected. You note
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	 Q. And neither of them were the minority-preferred candidates just in terms of having the highest point estimates in 2004, correct? A. Correct. Q. And they also ran in 2001, correct? A. Yes. Q. And Hogshead was not amongst the two black-preferred candidates in 2001 using the point estimates to define preferred candidate status, correct? A. Correct. Q. Okay. A. But she was, by this standard, a candidate of choice for African-Americans in 2013, so I'm not sure why we would value the past over the present in this in this setting. I think if the question is was she ever a preferred candidate, the answer is yes. Q. Well, prior to 2007, correct? A. Okay. Q. She had not been amongst the top two candidates for black voters, according to your estimates, 	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	Q. And using the point estimates, you would say she was a black candidate of choice in one out of those three elections, correct, 2013? A. Using the point estimate approach, I would say she was a candidate of choice in one of those three, yes. Q. Okay. So because she was a candidate of choice, using the point estimate approach, one out of three times in which she ran for office and was not a candidate of choice two out of three times in which she ran for office, you're describing her in 2007 as a black-preferred candidate, correct? A. Right now am I doing that? Q. In your report. I mean I believe A. Can you point to a paragraph? Q. Sure. A. I'm just trying to remember what we haven't gone through the uncontested elections analysis yet, so I need to have a look. Q. You describe the 2010 election in Paragraph 60, and you say Leslie Hogshead was elected. You note that she was a minority-preferred candidate, according to
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	 Q. And neither of them were the minority-preferred candidates just in terms of having the highest point estimates in 2004, correct? A. Correct. Q. And they also ran in 2001, correct? A. Yes. Q. And Hogshead was not amongst the two black-preferred candidates in 2001 using the point estimates to define preferred candidate status, correct? A. Correct. Q. Okay. A. But she was, by this standard, a candidate of choice for African-Americans in 2013, so I'm not sure why we would value the past over the present in this in this setting. I think if the question is was she ever a preferred candidate, the answer is yes. Q. Well, prior to 2007, correct? A. Okay. Q. She had not been amongst the top two candidates for black voters, according to your estimates, correct? 	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	Q. And using the point estimates, you would say she was a black candidate of choice in one out of those three elections, correct, 2013? A. Using the point estimate approach, I would say she was a candidate of choice in one of those three, yes. Q. Okay. So because she was a candidate of choice, using the point estimate approach, one out of three times in which she ran for office and was not a candidate of choice two out of three times in which she ran for office, you're describing her in 2007 as a black-preferred candidate, correct? A. Right now am I doing that? Q. In your report. I mean I believe A. Can you point to a paragraph? Q. Sure. A. I'm just trying to remember what we haven't gone through the uncontested elections analysis yet, so I need to have a look. Q. You describe the 2010 election in Paragraph 60, and you say Leslie Hogshead was elected. You note that she was a minority-preferred candidate, according to the point estimate approach, in 2013.

	Page 213		Page 215
1	"Of the 37 seats up for election since 2000" well, let	1	candidates using this decision rule, correct, Dr. Rodden?
2	me just stop there. When you say of the 37 seats up for	2	A. Yes.
3	election since 2000, when you offer that statistic, you're	3	Q. And both were elected in 2009, correct?
4	including uncontested elections, correct?	4	A. Yes.
5	A. I believe so, yes.	5	Q. Okay. And the same two candidates are the
6	Q. And you say 20 were won by minority-preferred	6	white-preferred candidates, using this decision rule,
7	candidates, 54 percent, correct?	7	correct?
8	A. Yes.	8	A. Yes.
9	Q. And in reaching that number of 20 wins by	9	Q. Just in reverse order, Schroeder first, then
10	minority-preferred candidates, you count Leslie Hogshead	10	Knowles, right? That's two and two, correct? Now, just
11	as a minority-preferred candidate in the 2007 and 2010	11	to be clear, there are no black candidates in this race,
12	elections, correct?	12	correct?
13	A. I don't have the data in front of me, but it's	13	A. Yes, I believe that's correct.
14	I may have. I don't remember.	14	Q. So voting for an African-American candidate
15	Q. Right. And you may have included Leslie	15	was not an option for voters in this election, correct?
16		16	A. Correct.
17	Hogshead as a minority-preferred candidate even though in two out of three elections that she ran, she was, in fact,	17	Q. 2011, let's look at that next. Now, there
18	not minority-preferred, using the point estimate decision	18	were three seats in this election, right?
19	rule for minority-preferred status, correct, Dr. Rodden?	19	A. Yes.
20	A. If indeed I included her in this calculation,	20	Q. And the highest ranked candidate in terms of
21	which of which the data are not in front of me, so if	21	white support is Martinez at about 23 percent, with some
22	that is the case, then it would be true that she was	22	rounding, correct?
23	minority-preferred by the point estimate approach in one	23	A. Yes.
24	out of three.	24	Q. And that level of support that you estimate
25	Q. And then you may have counted her as	25	for Martinez is statistically significantly higher than
	and the state of t	20	10. Martinez is statistically significantly riigher than
	Page 214		Page 216
1	minority-preferred in the two uncontested elections in	1	the estimates that you have for white support for all the
2	2007 and 2010 on that basis, correct, Dr. Rodden?	2	other candidates, correct?
3	A. I would need to look at the data, but it seems	3	A. Correct.
4	it seems it seems that I may have.	4	Q. Using statistical significance as a decision
5	Q. Okay. Let's get back to the 2009 election.	5	rule, is it possible to identify a second or third
6	There were two seats up for election in 2009 with three	6	Cuelte unefermed condidate in this sleet,
7	candidates, correct?		white-preferred candidate in this election?
	54.14.14.155/ 551.1551.	7	A. No.
8	A. I'm sorry. 2009 there were there were two	7 8	•
8 9		1	A. No.
	A. I'm sorry. 2009 there were there were two	8	A. No. Q. Okay. And Martinez was elected, correct?
9	A. I'm sorry. 2009 there were there were two seats, yes.	8 9	A. No.Q. Okay. And Martinez was elected, correct?A. Yes.
9 10	A. I'm sorry. 2009 there were there were two seats, yes.Q. And the top two candidates that you estimate	8 9 10	 A. No. Q. Okay. And Martinez was elected, correct? A. Yes. Q. So again, using this decision rule of
9 10 11	A. I'm sorry. 2009 there were there were two seats, yes. Q. And the top two candidates that you estimate in terms of black support are Schroeder and Knowles,	8 9 10 11	 A. No. Q. Okay. And Martinez was elected, correct? A. Yes. Q. So again, using this decision rule of statistical significance, white-preferred candidates were
9 10 11 12	A. I'm sorry. 2009 there were there were two seats, yes. Q. And the top two candidates that you estimate in terms of black support are Schroeder and Knowles, correct?	8 9 10 11 12	 A. No. Q. Okay. And Martinez was elected, correct? A. Yes. Q. So again, using this decision rule of statistical significance, white-preferred candidates were one for one in 2011, correct?
9 10 11 12 13	A. I'm sorry. 2009 there were there were two seats, yes. Q. And the top two candidates that you estimate in terms of black support are Schroeder and Knowles, correct? A. Correct.	8 9 10 11 12 13	 A. No. Q. Okay. And Martinez was elected, correct? A. Yes. Q. So again, using this decision rule of statistical significance, white-preferred candidates were one for one in 2011, correct? A. Yes.
9 10 11 12 13 14	A. I'm sorry. 2009 there were there were two seats, yes. Q. And the top two candidates that you estimate in terms of black support are Schroeder and Knowles, correct? A. Correct. Q. Okay. And the point estimates for support	8 9 10 11 12 13 14	 A. No. Q. Okay. And Martinez was elected, correct? A. Yes. Q. So again, using this decision rule of statistical significance, white-preferred candidates were one for one in 2011, correct? A. Yes. Q. And Martinez is not black, correct?
9 10 11 12 13 14 15	A. I'm sorry. 2009 there were there were two seats, yes. Q. And the top two candidates that you estimate in terms of black support are Schroeder and Knowles, correct? A. Correct. Q. Okay. And the point estimates for support amongst black voters for Knowles and Schroeder are higher	8 9 10 11 12 13 14	 A. No. Q. Okay. And Martinez was elected, correct? A. Yes. Q. So again, using this decision rule of statistical significance, white-preferred candidates were one for one in 2011, correct? A. Yes. Q. And Martinez is not black, correct? A. Correct.
9 10 11 12 13 14 15 16	A. I'm sorry. 2009 there were there were two seats, yes. Q. And the top two candidates that you estimate in terms of black support are Schroeder and Knowles, correct? A. Correct. Q. Okay. And the point estimates for support amongst black voters for Knowles and Schroeder are higher than the upper bound of the confidence interval for black	8 9 10 11 12 13 14 15 16	 A. No. Q. Okay. And Martinez was elected, correct? A. Yes. Q. So again, using this decision rule of statistical significance, white-preferred candidates were one for one in 2011, correct? A. Yes. Q. And Martinez is not black, correct? A. Correct. Q. Okay. 2011, black candidate support, you
9 10 11 12 13 14 15 16 17	A. I'm sorry. 2009 there were there were two seats, yes. Q. And the top two candidates that you estimate in terms of black support are Schroeder and Knowles, correct? A. Correct. Q. Okay. And the point estimates for support amongst black voters for Knowles and Schroeder are higher than the upper bound of the confidence interval for black support for Heise, the third and only other candidate in	8 9 10 11 12 13 14 15 16	 A. No. Q. Okay. And Martinez was elected, correct? A. Yes. Q. So again, using this decision rule of statistical significance, white-preferred candidates were one for one in 2011, correct? A. Yes. Q. And Martinez is not black, correct? A. Correct. Q. Okay. 2011, black candidate support, you estimate that Hawkins and Graham had the highest levels of
9 10 11 12 13 14 15 16 17	A. I'm sorry. 2009 there were there were two seats, yes. Q. And the top two candidates that you estimate in terms of black support are Schroeder and Knowles, correct? A. Correct. Q. Okay. And the point estimates for support amongst black voters for Knowles and Schroeder are higher than the upper bound of the confidence interval for black support for Heise, the third and only other candidate in the race, spelled H-e-i-s-e, correct?	8 9 10 11 12 13 14 15 16 17	 A. No. Q. Okay. And Martinez was elected, correct? A. Yes. Q. So again, using this decision rule of statistical significance, white-preferred candidates were one for one in 2011, correct? A. Yes. Q. And Martinez is not black, correct? A. Correct. Q. Okay. 2011, black candidate support, you estimate that Hawkins and Graham had the highest levels of support amongst black voters, with each receiving about 22
9 10 11 12 13 14 15 16 17 18	A. I'm sorry. 2009 there were there were two seats, yes. Q. And the top two candidates that you estimate in terms of black support are Schroeder and Knowles, correct? A. Correct. Q. Okay. And the point estimates for support amongst black voters for Knowles and Schroeder are higher than the upper bound of the confidence interval for black support for Heise, the third and only other candidate in the race, spelled H-e-i-s-e, correct? A. Yes.	8 9 10 11 12 13 14 15 16 17 18	A. No. Q. Okay. And Martinez was elected, correct? A. Yes. Q. So again, using this decision rule of statistical significance, white-preferred candidates were one for one in 2011, correct? A. Yes. Q. And Martinez is not black, correct? A. Correct. Q. Okay. 2011, black candidate support, you estimate that Hawkins and Graham had the highest levels of support amongst black voters, with each receiving about 22 percent of black votes, correct?
9 10 11 12 13 14 15 16 17 18 19 20	A. I'm sorry. 2009 there were there were two seats, yes. Q. And the top two candidates that you estimate in terms of black support are Schroeder and Knowles, correct? A. Correct. Q. Okay. And the point estimates for support amongst black voters for Knowles and Schroeder are higher than the upper bound of the confidence interval for black support for Heise, the third and only other candidate in the race, spelled H-e-i-s-e, correct? A. Yes. Q. Okay. So fair to say, using the decision rule	8 9 10 11 12 13 14 15 16 17 18 19 20	A. No. Q. Okay. And Martinez was elected, correct? A. Yes. Q. So again, using this decision rule of statistical significance, white-preferred candidates were one for one in 2011, correct? A. Yes. Q. And Martinez is not black, correct? A. Correct. Q. Okay. 2011, black candidate support, you estimate that Hawkins and Graham had the highest levels of support amongst black voters, with each receiving about 22 percent of black votes, correct? A. Yes.
9 10 11 12 13 14 15 16 17 18 19 20 21	A. I'm sorry. 2009 there were there were two seats, yes. Q. And the top two candidates that you estimate in terms of black support are Schroeder and Knowles, correct? A. Correct. Q. Okay. And the point estimates for support amongst black voters for Knowles and Schroeder are higher than the upper bound of the confidence interval for black support for Heise, the third and only other candidate in the race, spelled H-e-i-s-e, correct? A. Yes. Q. Okay. So fair to say, using the decision rule of statistical significance, that rule of thumb that we're	8 9 10 11 12 13 14 15 16 17 18 19 20 21	A. No. Q. Okay. And Martinez was elected, correct? A. Yes. Q. So again, using this decision rule of statistical significance, white-preferred candidates were one for one in 2011, correct? A. Yes. Q. And Martinez is not black, correct? A. Correct. Q. Okay. 2011, black candidate support, you estimate that Hawkins and Graham had the highest levels of support amongst black voters, with each receiving about 22 percent of black votes, correct? A. Yes. Q. And that is a statistically significantly
9 10 11 12 13 14 15 16 17 18 19 20 21 22	A. I'm sorry. 2009 there were there were two seats, yes. Q. And the top two candidates that you estimate in terms of black support are Schroeder and Knowles, correct? A. Correct. Q. Okay. And the point estimates for support amongst black voters for Knowles and Schroeder are higher than the upper bound of the confidence interval for black support for Heise, the third and only other candidate in the race, spelled H-e-i-s-e, correct? A. Yes. Q. Okay. So fair to say, using the decision rule of statistical significance, that rule of thumb that we're adopting for purposes of Exhibit 13, that Knowles and	8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	A. No. Q. Okay. And Martinez was elected, correct? A. Yes. Q. So again, using this decision rule of statistical significance, white-preferred candidates were one for one in 2011, correct? A. Yes. Q. And Martinez is not black, correct? A. Correct. Q. Okay. 2011, black candidate support, you estimate that Hawkins and Graham had the highest levels of support amongst black voters, with each receiving about 22 percent of black votes, correct? A. Yes. Q. And that is a statistically significantly higher level of black support versus all other candidates
9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	A. I'm sorry. 2009 there were there were two seats, yes. Q. And the top two candidates that you estimate in terms of black support are Schroeder and Knowles, correct? A. Correct. Q. Okay. And the point estimates for support amongst black voters for Knowles and Schroeder are higher than the upper bound of the confidence interval for black support for Heise, the third and only other candidate in the race, spelled H-e-i-s-e, correct? A. Yes. Q. Okay. So fair to say, using the decision rule of statistical significance, that rule of thumb that we're adopting for purposes of Exhibit 13, that Knowles and Schroeder are black-preferred candidates?	8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	A. No. Q. Okay. And Martinez was elected, correct? A. Yes. Q. So again, using this decision rule of statistical significance, white-preferred candidates were one for one in 2011, correct? A. Yes. Q. And Martinez is not black, correct? A. Correct. Q. Okay. 2011, black candidate support, you estimate that Hawkins and Graham had the highest levels of support amongst black voters, with each receiving about 22 percent of black votes, correct? A. Yes. Q. And that is a statistically significantly higher level of black support versus all other candidates in 2011, correct?

unhat would happen if we did a test of statistical significance, but using his rule of thumb couloff, Clock files short. d. Okay. Since we want to apply this rule biplectively. I'm going to say using this decision rule, files have a test and the statistical subjects of the statistical subjects of the statistical subject of the statistical subject of the statistical significance, that she received more votes amongst black certain rule, foldentify Garbam and Hawkins as black-preferred candidates, but to say that there is not a clear third black-preferred candidates, according to this decision rule. Now, Graham and Hawkins. And there were two black-preferred candidates, according to this decision rule. Now, Graham and Hawkins, neither of them were elected, correct? A. Correct. A. They both fell short by a very small number of votes, correct. A. They both fell short by a very small number of votes, correct. A. They both fell short by a very small number of votes, correct. A. They both fell short by a very small number of votes, correct. A. Ves. A. Ves. A. Ves. A. Ves. A. Ves. A. Ves.		Page 217		Page 219
falls short.	1	what would happen if we did a test of statistical	1	A. Correct.
Solition Content Con	2	• •	2	Q. For the record, Ebert and Schroeder are both
objectively, I'm going to say using this decision rule, it's fair I'm going to ask you, it's fair, using this decision rule, to identify Grahms and Hawkins as black-preferred candidates, but to say that there is not a clear third black-preferred candidates, correct? A. Correct. O. So let's record Grahm and Hawkins. And there were two black-preferred candidates, correct? A. Correct. O. So let's record Grahm and Hawkins. And there were two black-preferred candidates, correct? A. They both fell short by a very small number of were teected, correct? A. They both fell short by a very small number of veres, correct. A. They both fell short by a very small number of veres, correct. A. They both fell short by a very small number of veres, correct. A. They both fell short by a very small number of veres, correct. A. They both fell short by a very small number of veres, correct. A. Correct. A. Correct. A. Correct. A. Correct. A. Correct. A. Correct. Page 218 Page 218 A. Yes. Page 218 A. Yes. Page 218 A. Yes. A. Correct. C. O. Now, you say that one minority-preferred candidate, and both the candidate, according to your estimates, are Ebert at about 46.9 percent and Schroeder at about 41.1 percent; is that correct? A. Yes. A. Yes. A. Yes. A. Yes. A. Yes. A. Yes. A. Correct. A. Yes.	3		3	
solpictively, I'm going to say using this decision rule, It's fair I'm going to ask you, it's fair, using this decision rule, to identify Graham and Hawkins as black-preferred candidates, but to say that there is not a clear third black-preferred candidates, correct? A. Correct. C. So let's record Graham and Hawkins, And there were two black-preferred candidates, according to this decision rule. Now, Graham and Hawkins, neither of them were elected, correct? A. They both fell short by a very small number of were leveled, correct? A. They both fell short by a very small number of voits, correct. A. They both fell short by a very small number of voits, correct. A. Correct. A. Correct. A. Correct. A. Correct. A. Correct. Page 218 Q. And is it also then fair to say that Graham and Hawkins are estimated to have received about twice as many black voits as Clark? A. Yes. Page 218 Q. And is it also then fair to say that Graham and Hawkins received substantially more black votes than Clark? A. Yes. Page 218 Q. And is it also then fair to say that Graham and Hawkins received substantially more black votes than Clark? Q. And Iright. So let's look at 2012. This is a two-andidate election, correct? I'm sorry. Two-seat election, correct? A. Yes. Q. With three candidates, according to your estimates, are Ebert at about 46-9 percent and Schroeder at about 41.1 percent; is that correct? A. Yes. A. Yes. A. Yes. C. Okay. So applying this discussion rule, that would main there were two white-preferred? A. (The witness complied) A. Correct? A. Yes. C. Okay. So applying this discussion rule, can we record Ebert and Schroeder as white-preferred? A. (The witness complied) A. Correct? A. Yes. C. Okay. So applying this discussion rule, that would main there were two white-preferred? A. (The witness complied) A. Correct? A. Yes. C. Okay. So applying this discussion rule, can we record Ebert and Schroeder as white-preferred? A. (The witness complied) A. Correct? A. Yes. C. Okay. So applying this	4	Q. Okay. Since we want to apply this rule	4	·
6 It's fair — I'm going to ask you, it's fair, using this 7 decision rule, to identify Graham and Hawkins as 8 black-preferred candidates, but to say that there is not a 9 clear third black-preferred candidates, ornect? 10 A Correct. 11 Q. So let's record Graham and Hawkins. And there 12 were two black-preferred candidates, according to this 13 decision rule. Now, Graham and Hawkins, neither of them 14 were elected, correct? 15 A. They both fell short by a very small number of 16 votes, correct. 17 Q. Now, just to close the loop here on Clark, 18 your point estimate for Clark's support is about 10 19 percentage points lower among black voters than for Graham 19 and Hawkins, correct? 20 Q. And is it accurate to say that Graham and 21 Hawkins are estimated to have received about twice as many 22 black votes as Clark? 23 A. Yes. 24 Q. And is it accurate to say that Graham and 25 Hawkins are estimated to have received about twice as many 26 black votes as Clark? 27 Q. And is it also then fair to say that Graham and 28 Hawkins are estimated to have received about twice as many 29 black votes as Clark? 21 Q. And is it also then fair to say that Graham 20 and Hawkins received substantially more black votes than 21 Clark? 22 Q. And is it also then fair to say that Graham 22 and Hawkins received substantially more black votes than 23 clark? 24 A. Yes. 25 Q. All right. So let's look at 2012. This is a 26 two-candidate election, correct? I'm sorry. Two-seat 27 election, correct? 28 A. Yes. 29 Q. With three candidates, correct? 30 Q. Now, for white voters the top-ranked 31 candidate, according to your estimates, are Ebert at 32 about 4.6.9 percent and Schroeder at about 41.1 percent; is 33 that correct? 34 Q. Now, for white voters the top-ranked 35 candidate election, correct? 36 Q. Why the three candidates, correct? 37 Q. Now, you say that there were only three 38 about 4.6.9 percent and Schroeder at about 41.1 percent; is 39 the correct? 30 Q. Okay. So applying the discussion rule, can we 31 candidate to see the correct?	5		5	Q. Okay. For black voters the candidate with the
decision rule, to identify Graham and Hawkins as black-preferred candidates, but to say that there is not a clear third black-preferred candidates, but to say that there is not a clear third black-preferred candidates, according to this docision rule. Now, Graham and Hawkins, neither of them were two black-preferred candidates, according to this docision rule. Now, Graham and Hawkins, neither of them were elected, correct? A. They both fell short by a very small number of tweet elected, correct? A. They both fell short by a very small number of tweet elected, correct? A. They both fell short by a very small number of tweet elected, correct? A. They both fell short by a very small number of tweets, correct. A. They both fell short by a very small number of tweets, correct. A. They both fell short by a very small number of tweets, correct. A. They both fell short by a very small number of tweets, correct. A. They both fell short by a very small number of tweets, correct. A. They both fell short by a very small number of tweets, correct. A. Correct. A. Correct. A. Correct. A. Correct. A. Correct. A. Correct. C. And in fact, you could say fairly that black voters were not cohesive with respect to either Ebert or schooled, correct? A. Correct. C. And in fact, you could say fairly that black voters were not cohesive with respect to either Ebert or schooled, correct? A. Correct. C. And in fact, you could say fairly that black voters were not cohesive with respect to either Ebert or schooled, correct? A. Correct. C. A. Correct. C. A. Correct. C. A. Correct. A. Correct. C. A. Correct. C. A. Correct. C. A. Correct. A. Correct. C.	6		6	-
black-preferred candidates, but to say that there is not a clear third black-preferred candidate, correct? A Correct. C. So let's record Graham and Hawkins. And there were two black-preferred candidates, according to this decision rule. Now, Graham and Hawkins, neither of them were elected, correct? A Correct. A Correct. C. Now, Just to close the loop here on Clark, your point estimate for Clark's support is about 10 percentage points lower among black voters than for Graham and Hawkins, correct? A Correct. A Ves. Badd Hawkins received substantially more black votes than Clark's support black votes and the average and Hawkins received substantially more black votes than Clark's support and that's based on the point estimate. A Ves. A	7			•
clear third black-preferred candidate, correct? A. Correct. A. Correct. A. Correct. A. Trey both fell short by a very small number of very correct. A. They both fell short by a very small number of very correct. A. They both fell short by a very small number of very correct. A. They both fell short by a very small number of very correct. A. They both fell short by a very small number of very correct. A. They both fell short by a very small number of very correct. A. They both fell short by a very small number of very correct. A. They both fell short by a very small number of very correct. A. They both fell short by a very small number of very correct. A. They both fell short by a very small number of very correct. A. They both fell short by a very small number of very correct. A. They both fell short by a very small number of very correct. A. They both fell short by a very small number of very correct. A. They both fell short by a very small number of very correct. A. They both fell short by a very small number of very correct. A. Torrect. A. Correct. A. Correct. A. Correct. A. Correct. A. Correct. A. Correct. A. Yes. Page 218 Page 218 Page 220 A. And is it also then fair to say that Graham and Hawkins are estimated to have received about twice as many and Hawkins are estimated to have received about twice as many and Hawkins are estimated to have received about twice as many and Hawkins are estimated to have received about twice as many and Hawkins are estimated to have received about twice as many and Hawkins are estimated to have received about twice as many and Hawkins are estimated to have received about twice as many and Hawkins are estimated to have received about twice as many and Hawkins are estimated to have received about twice as many and Hawkins are estimated to have received about twice as many and Hawkins are estimated to have received about twice as many and Hawkins correct? A. Yes. A. Yes. A. Yes. A. Yes. A. Yes. A. Yes. A. Owa, Yo my white very and the fell	8	-	8	•
10				
11 O. So let's record Graham and Hawkins. And there were two black-preferred candidates, according to this decision rule. Now, Graham and Hawkins, neither of them were elected, correct? A. They bolf fell short by a very small number of twotes, correct. A. They bolf fell short by a very small number of twotes, correct. A. They bolf fell short by a very small number of twotes, correct. A. They bolf fell short by a very small number of twotes, correct. A. They bolf fell short by a very small number of twotes, correct. A. A. Correct. D. Now, just to close the loop here on Clark, your point estimate for Clark's support Is about 10 percentage points lower among black outers than for Graham and Hawkins, correct? A. Correct. O. And is it accurate to say that Graham and Hawkins are estimated to have received about twice as many black votes as Clark? A. Yes. Page 218 Page 218 Page 218 A. Yes. O. Now, you say that one minority-preferred A. Was are eferring to the text of the and Hawkins received substantially more black votes than Clark? A. Yes. A. Was. O. With three candidates, correct? A. Was. O. Now, for white voters the top-ranked candidates, according to your estimates, are Ebert at about 46.9 percent and Schroeder at about 41.1 percent; is that correct? A. Correct. O. Now, you say one minority-preferred candidates, according to your estimates, are Ebert at about 46.9 percent and Schroeder at about 41.1 percent; is that correct? A. Correct. O. Now, for white voters the top-ranked candidates, according to your estimates, are Ebert at about 46.9 percent and Schroeder at white-preferred? A. Correct. O. Now, jown that there were two hite-preferred? A. Yes. O. Now, given that there were only three candidates was elected, that's the last sentence in that paragraph. A. Yes. O. Now, given that there were only three candidates was elected, your describe the results of the 2013 election, you say one minority-preferred candidates, according to your estimates, are Ebert at about 46.9 percent and S		•		•
decision rule. Now, Graham and Hawkins, neither of them were elected, correct? A. They both fell short by a very small number of votes, correct. A. They both fell short by a very small number of votes, correct. A. They both fell short by a very small number of votes, correct. A. They both fell short by a very small number of votes, correct. A. They both fell short by a very small number of votes, correct. A. Correct. C. And in fact, you could say fairly that black voters were not cohesive with respect to either Ebert or Schroeder, correct? A. Correct. C. And in fact, you could say fairly that black voters were not cohesive with respect to either Ebert or Schroeder, correct? A. Correct. C. And is it accurate to say that Graham and Hawkins, are estimated to have received about twice as many black votes as Clark? A. Yes. Page 218 Page 218 Page 220 A. Correct. C. Okay. So given the rules that we've arritculated, one black-preferred candidate, B. Morris, who was not elected, correct? A. Yes. C. Now, you say that one minority-preferred A. Yes.				
decision rule. Now, Graham and Hawkins, neither of them were elected, correct? A. They both fell short by a very small number of voles, correct. C. Now, Just to close the loop here on Clark, you could say fairly that black voters were not chesive with respect to either Ebert or Schroeder more, correct? A. Correct. C. And in fact, you could say fairly that black voters were not chesive with respect to either Ebert or Schroeder, correct? A. Correct. C. And in fact, you could say fairly that black voters were not chesive with respect to either Ebert or Schroeder, correct? A. Correct. C. And in fact, you could say fairly that black voters were not chesive with respect to either Ebert or Schroeder, correct? A. Correct. C. And in fact, you could say fairly that black voters were not chesive with respect to either Ebert or Schroeder, correct? A. Correct. C. And in fact, you could say fairly that black voters were not chesive with respect to either Ebert or Schroeder, correct? A. Correct. C. And in fact, you could say fairly that black voters were not chesive with respect to either Ebert or Schroeder, correct? A. Correct. C. O. Nay. So given the rules that we've articulated, one black-preferred candidate, s. Orrect? A. Yes. Dage 218 Page 220 Page 2218 Page 220 A. Yes. C. With three candidates, correct? A. Yes. C. O. So Paragraph 57 where you describe the results of the paragraph. A. Yes. that is using the point estimate paragraph. A. Yes. C. O. Nay. And that's using the point estimate approach to define Schroeder as a black-preferred candidate, vacoreding to your estimates, are Ebert at about 46.9 percent and Schroeder at about 41.1 percent; is about 46.9 percent and Schroeder at about 41.1 percent; is that correct? A. Yes. C. Now, or white voters the top-ranked candidates, according to your estimates, are Ebert at about 46.9 percent and Schroeder at about 41.1 percent; is that correct? A. Y				·
14 were elected, correct? A. They both fell short by a very small number of votes, correct. A. They both fell short by a very small number of votes, correct. D. Now, Just to close the loop here on Clark, your point estimate for Clark's support is about 10 percentage points lower among black voters than for Graham and Hawkins, correct? A. Correct. D. Okay, So given the rules that we've articulated, one black-preferred candidate, B. Morris, who was not elected, correct? A. Yes. Page 218 Page 218 Page 220 A. Mad is it also then fair to say that Graham and Hawkins are estimated to have received about twice as many black votes as Clark? A. Yes. A. Yes. D. And is it also then fair to say that Graham and Hawkins received substantially more black votes than and the was elected in 2012, in your report, and that's based on the point estimates, correct? A. Yes, Sure. D. All right. So let's look at 2012. This is a two-candidate election, correct? I'm sorry. Two-seat election, correct? A. Yes. D. With three candidates, correct? A. Yes. D. With three candidates, correct? A. Yes. D. Oway, for white voters the top-ranked and solve the preferred candidates, according to your estimates, are Ebert at about 46.9 percent and Schroeder at about 41.1 percent; is that correct? A. Yes. D. Okay. So plant the rules that we've articulated, one black-preferred candidate, correct? A. Yes. D. On Harth With the candidates, and the preferred candidates, and the preferred candidates, or the rules that		· · · · · · · · · · · · · · · · · · ·		
15 A. They both fell short by a very small number of votes, correct. Q. Now, Just to close the loop here on Clark, your point estimate for Clark's support is about 10 percentage points lower among black voters than for Graham and Hawkins, correct? A. Correct. 21 A. Correct. 22 A. Correct. 23 A. Correct. 24 A. Correct. 25 A. Yes. 26 A. Yes. 27 A. Yes. 28 Page 218 Page 210 A. Yes. O. Mow, you say that one minority-preferred and that's based on the point estimates, correct? A. Yes are referring to the text of the paragraphs in which I was applying the point estimate O. Urb-hub. A. Hechnique? O. With three candidates, correct? O. Now, for white voters the top-ranked candidates, according to your estimates, are Ebert at about 41.1 percent; is statistically significantly higher rate than the onty other candidate in the race, B. Morris, correct? A. Yes. O. Now, and that's using the point estimate approach, yes. O. Okay. So applying this decision rule, can we record Ebert and Schroeder as white-preferred? A. Yes use the following the page approach, you will always conclude that a black-preferred andidates, and both the text of this paragraph, any time				-
16				-
17 Q. Now, just to close the loop here on Clark, your point estimate for Clark's support is about 10 percentage points lower among black voters than for Graham and Hawkins, correct? 20 and Hawkins, correct? 21 A. Correct. 22 Q. And is it accurate to say that Graham and Hawkins are estimated to have received about twice as many black votes as Clark? 25 A. Yes. 26 Page 218 1 Q. And is it also then fair to say that Graham and and Hawkins received substantially more black votes than and Hawkins are estimated to have received about 40 twice as many was not elected, correct? 3 Q. And is it also then fair to say that Graham and Hawkins received substantially more black preferred candidate was elected in 2012, in your report, and that's based on the point estimate apargraphs in which I was applying the point estimate				*
your point estimate for Clark's support is about 10 percentage points lower among black voters than for Graham and Hawkins, correct? A. Correct. Q. And is it accurate to say that Graham and Hawkins are estimated to have received about twice as many black votes as Clark? A. Yes. A. Yes. D. And is it also then fair to say that Graham and Hawkins received about twice as many black votes as Clark? A. Yes. D. And is it also then fair to say that Graham and Hawkins received substantially more black votes than and Hawkins received substantially more black vo				
percentage points lower among black voters than for Graham and Hawklins, correct? A. Correct. C. And is it accurate to say that Graham and Hawklins are estimated to have received about twice as many black votes as Clark? A. Yes. Page 218 Page 218 Page 218 O. And is it also then fair to say that Graham and Hawklins are estimated to have received about twice as many black votes as Clark? A. Yes. Page 218 Page 218 O. And is it also then fair to say that Graham and Hawklins received substantially more black votes than and Hawklins and Hawklins received substantially more black votes than and Hawklins received substantially more point, and that's using the point estimate approach, yes. A. Yes, that is using the point estimate approach point substantialy				
and Hawkins, correct? A. Correct. Q. And is it accurate to say that Graham and Hawkins are estimated to have received about twice as many black votes as Clark? A. Yes. Page 218 Page 218 Page 218 Page 218 Q. And is it also then fair to say that Graham and Hawkins received substantially more black votes than Clark? A. Yes, sure. Q. And is it also then fair to say that Graham and Hawkins received substantially more black votes than Clark? A. Yes, sure. Q. All right. So let's look at 2012. This is a two-candidate election, correct? I'm sorry. Two-seat election, correct? A. Yes. Q. With three candidates, correct? A. Yes. A. Yes. Q. With three candidates, correct? A. Yes. A. Yes. Q. With three candidates, correct? A. Yes. A. Yes. O. Wow, you say that one minority-preferred a paragraphs in which I was applying the text of the paragraphs in which I was applying the point estimate of the 2013 election, you say one minority-preferred candidate was elected, that's the last sentence in that paragraph. A. Yes. O. Wow, for white voters the top-ranked candidates, according to your estimates, are Ebert at about 46.9 percent and Schroeder at about 41.1 percent; is that correct? A. Yes. C. And they received white support at a statistically significantly higher rate than the only other candidate in the race, B. Morris, correct? A. Yes. C. Now, given that there were only three candidates for two seats, if you use the point estimate approach, you will asyc o		• •		· · · · · · · · · · · · · · · · · · ·
A. Correct. Q. And is it accurate to say that Graham and Hawkins are estimated to have received about twice as many black votes as Clark? Page 218 Page 218 Page 218 Page 218 Page 218 Q. And is it also then fair to say that Graham and and Hawkins received substantially more black votes than and Hawkins received substantially mor				•
22 articulated, one black-preferred candidate, B. Morris, who was not elected, correct? 23 A. Yes. 24 A. Yes. 25 A. Yes. 26 Page 218 27 Page 218 28 Page 220 1 Q. And is it also then fair to say that Graham and Hawkins received substantially more black votes than and Hawkin				
Hawkins are estimated to have received about twice as many black votes as Clark? A. Yes. Page 218 Page 218 Page 220 1				
Page 218 Page 218 Page 218 Page 220 1 Q. And is it also then fair to say that Graham and Hawkins received substantially more black votes than Clark? 3 Clark? 4 A. Yes, sure. 5 Q. All right. So let's look at 2012. This is a two-candidate election, correct? I'm sorry. Two-seat election, correct? 6 two-candidate election, correct? I'm sorry. Two-seat election, correct? 7 election, correct? 8 A. Yes. 9 Q. With three candidates, correct? 9 Q. With three candidates, correct? 10 A. Yes. 10 Page 218 Page 220 1 candidate was elected in 2012, in your report, and that's based on the point estimates, correct? A. You are referring to the text of the paragraphs in which I was applying the point estimate O. Uh-huh. 6 A technique? O. So Paragraph 57 where you describe the results of the 2013 election, you say one minority-preferred candidate was elected, that's the last sentence in that paragraph. A. Yes. 10 paragraph. A. Yes, that is using the point estimate approach to define Schroeder as a black-preferred candidate, correct? A. Yes. 10 Q. And they received white support at a statistically significantly higher rate than the only other candidate in the race, B. Morris, correct? 10 Q. Kay. So applying this decision rule, can we record Ebert and Schroeder as white-preferred? A. Correct. Q. Okay. So applying this decision rule, can we record Ebert and Schroeder as white-preferred? A. The witness compiled.) Q. And applying this discussion rule, that would mean there were two white-preferred candidates, and both like you do here in the text of this paragraph, any time				-
Page 218 Page 220 O. Now, you say that one minority-preferred Page 220 O. Now, you say that one minority-preferred Page 220 O. Now, you say that one minority-preferred Page 220 O. Now, you say that one minority-preferred Candidate was elected in 2012, in your report, and that's based on the point estimates, correct? A. You are referring to the text of the paragraphs in which I was applying the point estimate O. All right. So let's look at 2012. This is a two-candidate election, correct? I'm sorry. Two-seat election, correct? A. Yes. O. With three candidates, correct? O. With three candidates, correct? O. With three candidates, correct? O. Now, for white voters the top-ranked approach, yes. O. Now, for white voters the top-ranked that correct? A. Yes. O. And they received white support at a statistically significantly higher rate than the only other candidate in the race, B. Morris, correct? A. Correct. O. Okay. So applying this decision rule, can we record Ebert and Schroeder as white-preferred? A. (The witness compiled.) O. And applying this discussion rule, that would mean there were two white-preferred candidates, and both like you do here in the text of this paragraph, any time		-		
Page 218 Page 220 1				
1 Q. And is it also then fair to say that Graham 2 and Hawkins received substantially more black votes than 3 Clark? 4 A. Yes, sure. 5 Q. All right. So let's look at 2012. This is a 6 two-candidate election, correct? I'm sorry. Two-seat 7 election, correct? 8 A. Yes. 9 Q. With three candidates, correct? 9 Q. With three candidates, correct? 10 A. Yes. 11 Q. Now, for white voters the top-ranked 12 candidates, according to your estimates, are Ebert at 13 about 46.9 percent and Schroeder at about 41.1 percent; is 14 that correct? 15 A. Yes. 16 Q. And they received white support at a 17 statistically significantly higher rate than the only 18 other candidate in the race, B. Morris, correct? 19 A. Correct. Q. Okay. So applying this decision rule, can we record Ebert and Schroeder as white-preferred? 20 Q. And applying this discussion rule, that would 21 mean there were two white-preferred candidates, and both 22 like you do here in the text of the based on the point estimates; based on the point estimate, and that's based on the point estimate, and that's using the point estimate 2	25	A. Yes.	25	Q. Now, you say that one minority-preferred
and Hawkins received substantially more black votes than Clark? A. Yes, sure. Q. All right. So let's look at 2012. This is a two-candidate election, correct? I'm sorry. Two-seat election, correct? A. Yes. Q. With three candidates, correct? A. Yes. Q. With three candidates, correct? A. Yes. Candidate was elected, that's the last sentence in that paragraph. A. Yes, that is using the point estimate approach, yes. A. Yes, that is using the point estimate approach, yes. A. Yes, that is using the point estimate approach, yes. A. Yes, that is using the point estimate approach, yes. A. Yes, that is using the point estimate approach, yes. A. Yes, that is using the point estimate approach to define Schroeder as a black-preferred candidate, correct? A. Yes. A. Y		Page 218		Page 220
2 and Hawkins received substantially more black votes than 3 Clark? 4 A. Yes, sure. 5 Q. All right. So let's look at 2012. This is a 6 two-candidate election, correct? I'm sorry. Two-seat 7 election, correct? 8 A. Yes. 9 Q. With three candidates, correct? 9 Q. With three candidates, correct? 10 A. Yes. 11 Q. Now, for white voters the top-ranked 12 candidates, according to your estimates, are Ebert at 13 about 46.9 percent and Schroeder at about 41.1 percent; is 14 that correct? 15 A. Yes. 16 Q. And they received white support at a 17 statistically significantly higher rate than the only 18 other candidate in the race, B. Morris, correct? 19 A. Correct. 20 Q. Okay. So applying this decision rule, can we 20 record Ebert and Schroeder as white-preferred? 21 A. (The witness compiled.) 22 A. (The witness compiled.) 23 Q. And applying this discussion rule, that would 24 mean there were two white-preferred candidates, and both 2	1	Q. And is it also then fair to say that Graham	1	candidate was elected in 2012, in your report, and that's
A. Yes, sure. O. All right. So let's look at 2012. This is a two-candidate election, correct? I'm sorry. Two-seat election, correct? Election, correct? O. With three candidates, correct? O. Now, for white voters the top-ranked candidates, according to your estimates, are Ebert at about 46.9 percent and Schroeder at about 41.1 percent; is that correct? A. Yes. O. And they received white support at a statistically significantly higher rate than the only other candidate finithe race, B. Morris, correct? A. Correct. O. Okay. So Paragraph 57 where you describe the results of the 2013 election, you say one minority-preferred candidate was elected, that's the last sentence in that paragraph. A. Yes, that is using the point estimate approach, yes. O. Okay. And that's using the point estimate approach to define Schroeder as a black-preferred candidate, correct? A. Yes. O. And they received white support at a statistically significantly higher rate than the only other candidate in the race, B. Morris, correct? A. Correct. O. Okay. So applying this decision rule, can we recently like your do here in the text of this paragraph, any time	2		2	
4 A. Yes, sure. 5 Q. All right. So let's look at 2012. This is a 6 two-candidate election, correct? I'm sorry. Two-seat 6 election, correct? 7 election, correct? 8 A. Yes. 9 Q. With three candidates, correct? 9 Q. With three candidates, correct? 10 A. Yes. 11 Q. Now, for white voters the top-ranked 12 candidates, according to your estimates, are Ebert at 13 about 46.9 percent and Schroeder at about 41.1 percent; is 14 that correct? 15 A. Yes. 16 Q. And they received white support at a 17 statistically significantly higher rate than the only 18 other candidate in the race, B. Morris, correct? 19 A. Correct. 10 C. Now, So applying this decision rule, can we 10 record Ebert and Schroeder as white-preferred? 20 Q. And applying this discussion rule, that would 21 mean there were two white-preferred candidates, and both 22 like you do here in the text of this paragraph, any time			3	-
5 Q. All right. So let's look at 2012. This is a 6 two-candidate election, correct? I'm sorry. Two-seat 7 election, correct? 8 A. Yes. 9 Q. With three candidates, correct? 10 A. Yes. 11 Q. Now, for white voters the top-ranked 12 candidates, according to your estimates, are Ebert at 13 about 46.9 percent and Schroeder at about 41.1 percent; is 14 that correct? 15 A. Yes. 16 Q. And they received white support at a 17 statistically significantly higher rate than the only 18 other candidate in the race, B. Morris, correct? 19 A. Correct. 10 Q. And applying this decision rule, can we 10 record Ebert and Schroeder as white-preferred? 20 Q. And applying this discussion rule, that would 21 mean there were two white-preferred candidates, and both 22 like you do here in the text of this paragraph, any time	4	A. Yes, sure.	4	-
two-candidate election, correct? I'm sorry. Two-seat election, correct? A. Yes. Q. With three candidates, correct? A. Yes. O. Now, for white voters the top-ranked candidates, according to your estimates, are Ebert at about 46.9 percent and Schroeder at about 41.1 percent; is that correct? A. Yes. O. And they received white support at a tother candidate in the race, B. Morris, correct? A. Correct. O. Okay. So Paragraph 57 where you describe the results of the 2013 election, you say one minority-preferred candidate was elected, that's the last sentence in that paragraph. A. Yes, that is using the point estimate approach, yes. O. Okay. And that's using the point estimate approach to define Schroeder as a black-preferred candidate, correct? A. Yes. O. Now, given that there were only three candidates for two seats, if you use the point estimate approach, you will always conclude that a black-preferred candidate was successful, correct? A. Are you referring to making a general statement? O. And applying this discussion rule, that would mean there were two white-preferred candidates, and both A. Wes. O. Well, if you use a point estimate approach like you do here in the text of this paragraph, any time	5	Q. All right. So let's look at 2012. This is a	5	
election, correct? A. Yes. Q. With three candidates, correct? A. Yes. O. Now, for white voters the top-ranked candidates, according to your estimates, are Ebert at about 46.9 percent and Schroeder at about 41.1 percent; is A. Yes. O. And they received white support at a statistically significantly higher rate than the only other candidate in the race, B. Morris, correct? A. Correct. O. Okay. So Paragraph 57 where you describe the results of the 2013 election, you say one minority-preferred andidate was elected, that's the last sentence in that paragraph. A. Yes, that is using the point estimate approach, yes. O. Okay. And that's using the point estimate approach to define Schroeder as a black-preferred candidate, correct? A. Yes. O. Now, given that there were only three candidates for two seats, if you use the point estimate approach, you will always conclude that a black-preferred candidates for two seats, if you use the point estimate approach, you will always conclude that a black-preferred candidate was successful, correct? A. Are you referring to making a general statement? A. Well, if you use a point estimate approach like you do here in the text of this paragraph, any time	6	-	6	A technique?
A. Yes. Q. With three candidates, correct? A. Yes. O. Now, for white voters the top-ranked candidates, according to your estimates, are Ebert at about 46.9 percent and Schroeder at about 41.1 percent; is that correct? A. Yes. O. And they received white support at a statistically significantly higher rate than the only other candidate in the race, B. Morris, correct? A. Correct. O. Okay. So applying this decision rule, can we record Ebert and Schroeder as white-preferred? A. (The witness complied.) A. Yes. O. With three candidates, correct? A. Yes, that is using the point estimate approach, yes. O. Okay. And that's using the point estimate approach to define Schroeder as a black-preferred approach to define Schroeder as a black-preferred approach to define Schroeder as a black-preferred A. Yes. O. Now, given that there were only three candidates for two seats, if you use the point estimate approach, you will always conclude that a black-preferred candidate was successful, correct? A. Are you referring to making a general statement? O. And applying this discussion rule, that would mean there were two white-preferred candidates, and both A. Yes. O. Well, if you use a point estimate approach like you do here in the text of this paragraph, any time	7	-	7	·
9 Candidate was elected, that's the last sentence in that 10 A. Yes. 11 Q. Now, for white voters the top-ranked 12 candidates, according to your estimates, are Ebert at 13 about 46.9 percent and Schroeder at about 41.1 percent; is 14 that correct? 15 A. Yes. 16 Q. And they received white support at a 17 statistically significantly higher rate than the only 18 other candidate in the race, B. Morris, correct? 19 A. Correct. 10 Q. Okay. So applying this decision rule, can we 19 record Ebert and Schroeder as white-preferred? 20 Q. And applying this discussion rule, that would 21 mean there were two white-preferred candidates, and both 22 like you do here in the text of this paragraph, any time	8		8	
10 A. Yes. 11 Q. Now, for white voters the top-ranked 12 candidates, according to your estimates, are Ebert at 13 about 46.9 percent and Schroeder at about 41.1 percent; is 14 that correct? 15 A. Yes. 16 Q. And they received white support at a 17 statistically significantly higher rate than the only 18 other candidate in the race, B. Morris, correct? 19 A. Correct. 10 Q. Okay. So applying this decision rule, can we 10 candidate was successful, correct? 11 A. Are you referring to making a general 12 approach, yes. 13 Q. Okay. So applying this discussion rule, that would 14 approach to define Schroeder as a black-preferred 15 A. Yes. 16 Candidate, correct? 17 Q. Now, given that there were only three 18 candidates for two seats, if you use the point estimate 19 approach, you will always conclude that a black-preferred 20 candidate was successful, correct? 21 A. Are you referring to making a general 22 statement? 23 Q. Well, if you use a point estimate approach 24 mean there were two white-preferred candidates, and both 24 like you do here in the text of this paragraph, any time				
11 Q. Now, for white voters the top-ranked 12 candidates, according to your estimates, are Ebert at 13 about 46.9 percent and Schroeder at about 41.1 percent; is 14 that correct? 15 A. Yes. 16 Q. And they received white support at a 17 statistically significantly higher rate than the only 18 other candidate in the race, B. Morris, correct? 19 A. Correct. 10 Q. Okay. So applying this decision rule, can we 11 A. Yes, that is using the point estimate 12 approach, yes. 13 Q. Okay. And that's using the point estimate 14 approach to define Schroeder as a black-preferred 15 candidate, correct? 16 A. Yes. 17 Q. Now, given that there were only three 18 candidates for two seats, if you use the point estimate 19 A. Correct. 19 approach, you will always conclude that a black-preferred 20 candidate was successful, correct? 21 record Ebert and Schroeder as white-preferred? 22 A. (The witness complied.) 23 Q. Well, if you use a point estimate approach 24 mean there were two white-preferred candidates, and both 24 like you do here in the text of this paragraph, any time				
2 candidates, according to your estimates, are Ebert at 2 approach, yes. 13 about 46.9 percent and Schroeder at about 41.1 percent; is 4 that correct? 14 approach to define Schroeder as a black-preferred 15 A. Yes. 16 Q. And they received white support at a 17 statistically significantly higher rate than the only 18 other candidate in the race, B. Morris, correct? 19 A. Correct. 20 Q. Okay. So applying this decision rule, can we 21 record Ebert and Schroeder as white-preferred? 22 A. (The witness complied.) 23 Q. And applying this discussion rule, that would 24 mean there were two white-preferred candidates, and both 25 approach, yes. 26 Q. Okay. And that's using the point estimate 27 approach, yes. 28 Q. Okay. And that's using the point estimate 28 approach to define Schroeder as a black-preferred 29 Candidate, correct? 20 Q. Now, given that there were only three 29 candidates for two seats, if you use the point estimate 20 candidate was successful, correct? 21 A. Are you referring to making a general 22 statement? 23 Q. Well, if you use a point estimate approach 24 like you do here in the text of this paragraph, any time				
about 46.9 percent and Schroeder at about 41.1 percent; is that correct? A. Yes. C. And they received white support at a statistically significantly higher rate than the only other candidate in the race, B. Morris, correct? A. Correct. C. Okay. So applying this decision rule, can we record Ebert and Schroeder as white-preferred? A. (The witness complied.) A. (The witness complied.) A. (The witness complied.) A. (The witness complied approach and poly in the decision rule, that would mean there were two white-preferred candidates, and both 13		•		•
that correct? A. Yes. O. And they received white support at a statistically significantly higher rate than the only other candidate in the race, B. Morris, correct? A. Correct. O. Okay. So applying this decision rule, can we record Ebert and Schroeder as white-preferred? A. (The witness complied.) A. (The witness complied.) A. (The witness complied by the decision rule, that would mean there were two white-preferred candidates, and both like you do here in the text of this paragraph, any time				
15 A. Yes. 16 Q. And they received white support at a 17 statistically significantly higher rate than the only 18 other candidate in the race, B. Morris, correct? 19 A. Correct. 19 Q. Okay. So applying this decision rule, can we 20 candidate was successful, correct? 21 record Ebert and Schroeder as white-preferred? 22 A. (The witness complied.) 23 Q. And applying this discussion rule, that would 24 mean there were two white-preferred candidates, and both 25 candidate, correct? 26 A. Yes. 27 C. Now, given that there were only three candidates for two seats, if you use the point estimate approach, you will always conclude that a black-preferred candidate was successful, correct? 26 A. Are you referring to making a general statement? 27 Statement? 28 Q. Well, if you use a point estimate approach like you do here in the text of this paragraph, any time		•	l .	
16 Q. And they received white support at a 17 statistically significantly higher rate than the only 18 other candidate in the race, B. Morris, correct? 19 A. Correct. 19 Q. Okay. So applying this decision rule, can we 20 candidate was successful, correct? 21 record Ebert and Schroeder as white-preferred? 22 A. (The witness complied.) 23 Q. And applying this discussion rule, that would 24 mean there were two white-preferred candidates, and both 26 A. Yes. 17 Q. Now, given that there were only three 28 candidates for two seats, if you use the point estimate 29 approach, you will always conclude that a black-preferred 20 candidate was successful, correct? 21 A. Are you referring to making a general 22 statement? 23 Q. Well, if you use a point estimate approach 24 like you do here in the text of this paragraph, any time				
statistically significantly higher rate than the only other candidate in the race, B. Morris, correct? A. Correct. O. Okay. So applying this decision rule, can we record Ebert and Schroeder as white-preferred? A. (The witness complied.)				•
other candidate in the race, B. Morris, correct? 18				
A. Correct. Okay. So applying this decision rule, can we record Ebert and Schroeder as white-preferred? A. (The witness complied.) A. (The witness complied.) Okay. So applying this decision rule, can we record Ebert and Schroeder as white-preferred? A. Are you referring to making a general statement? Okay. So applying this decision rule, can we record Ebert and Schroeder as white-preferred? A. Are you referring to making a general statement? Okay. So applying this decision rule, can we record Ebert and Schroeder as white-preferred? Okay. So applying this decision rule, can we record Ebert and Schroeder as white-preferred? Okay. So applying this decision rule, can we record Ebert and Schroeder as white-preferred? Okay. So applying this decision rule, can we record Ebert and Schroeder as white-preferred? Okay. So applying this decision rule, can we record Ebert and Schroeder as white-preferred? Okay. Are you will always conclude that a black-preferred candidate was successful, correct? A. Are you referring to making a general statement? Okay. So applying this decision rule, can we record Ebert and Schroeder as white-preferred? Okay. Are you will always conclude that a black-preferred candidate was successful, correct? A. Are you referring to making a general statement? Okay. So applying this discussion rule, that would like you do here in the text of this paragraph, any time				
20 Q. Okay. So applying this decision rule, can we record Ebert and Schroeder as white-preferred? 21 A. (The witness complied.) 22 A. (The witness complied.) 23 Q. And applying this discussion rule, that would mean there were two white-preferred candidates, and both 24 mean there were two white-preferred candidates, and both 25 candidate was successful, correct? 26 A. Are you referring to making a general statement? 27 Statement? 28 Q. Well, if you use a point estimate approach like you do here in the text of this paragraph, any time			l .	
record Ebert and Schroeder as white-preferred? 21 A. Are you referring to making a general 22 A. (The witness complied.) 23 Q. And applying this discussion rule, that would 24 mean there were two white-preferred candidates, and both 25 A. Are you referring to making a general 26 statement? 27 Q. Well, if you use a point estimate approach 28 like you do here in the text of this paragraph, any time				
A. (The witness complied.) 2. statement? 2. And applying this discussion rule, that would 2. Well, if you use a point estimate approach 2. Well, if you use a point estimate approach 2. Well is you do here in the text of this paragraph, any time				•
Q. And applying this discussion rule, that would 23 Q. Well, if you use a point estimate approach like you do here in the text of this paragraph, any time		-		
mean there were two white-preferred candidates, and both 24 like you do here in the text of this paragraph, any time		·		

20 of them were elected, correct: you have a two-seat election with three candidates, at		•		
	∠5	or them were elected, correct?	23	you have a two-seat election with three candidates, at

	D 001		D 000
	Page 221		Page 223
1	least one black-preferred candidate will win, correct?	1	effect of Barbara Morris could have won if more black
2	A. Sure.	2	voters had employed a single-shot strategy, correct?
3	Q. Okay. And when you make that assessment, you	3	A. Yes, and she also could have won if more white
4	don't make any assessment of the relative levels of	4	voters had voted for her.
5	support amongst candidates, correct? You just say second	5	Q. Yeah.
6	highest point estimate amongst black voters, that's a	6	A. Both things are true.
7	black-preferred candidate and that person won?	7	Q. Right. So
8	A. Yes.	8	A. So it's very difficult for us to to to
9	Q. Okay. Now, if we compare the level of support	9	claim that she was that she was blocked by by white
10	that Schroeder received, and Schroeder has the second	10	block voting, but this is not where we are right now, so
11	highest level of black estimated support, according to	11	we'll come back to that.
12	you, if we compare that to what B. Morris got, right,	12	MS. ORMSBY: And he was in the middle of a
13	Schroeder got about half the level of support estimated	13	question and you started talking.
14	amongst black voters as Morris, correct?	14	A. Yes.
15	A. Correct.	15	MS. ORMSBY: So let him finish his question
16	Q. Fair to say that Morris got substantially more	16	and then you can answer.
17	support amongst black voters than Schroeder?	17	A. I'm sorry.
18	A. Yes. It is fair to say that Barbara Morris	18	Q. That's okay. So one of the reasons so you
19	received a good deal of support from African-Americans,	19	identify two reasons. I want to talk about them
20	but that African-Americans used their second ballot to	20	separately.
21	vote for a combination of Paul Schroeder and Mr. Ebert,	21	A. Sure.
22	and that by splitting their votes among the white	22	Q. One of the reasons you say that she lost was,
23	candidates, they prevented Barbara Morris from winning.	23	or one way in which her loss could have been averted
24	Because the African-American candidates had	24	maybe that's a more appropriate way to characterize what
25	the opportunity to cast all of their votes their only	25	you said.
	Page 222		Page 224
1	to cast one vote for Ms. Morris, and if they had done	1	A. Yes.
2	so, she would have easily won, so this kind of reveals	2	Q. One of the ways in which her loss could have
3	some of the difficulties of the technique that we're	3	been averted would have been if more black voters had
4	currently using, because we you know, if it's the case	4	engaged in single-shot voting, correct?
5	here that African-Americans preferred Morris we clearly	5	A. Correct.
6	can tell that they preferred Morris to Schroeder or Ebert,	6	Q. So if more black voters had abandoned one of
7	but the problem for us is that that we're looking at	7	their votes, they could have elected their preferred
8	we're well, we're getting ahead of ourselves to get to	8	candidate, correct?
9	the question of to get to the question of really at	9	A. Correct.
10	the heart of the Voting Rights Act, so I guess we're just	10	Q. Do you is it your opinion that in order to
11	focussing on pure wins and losses right now. So we'll	11	elect their preferred candidates, minority voters are
12	come back to the other questions later, but we do need to	12	obligated to abandon one of their votes?
13	understand how the wins and losses happen and how that	13	A. No. Had there been had there been an
14	relates to the Voting Rights Act.	14	additional candidate on the ballot who African-American
15	Q. I was actually	15	voters preferred to Schroeder or Brown, they could have
•	A Well come to that	16	voted for one of those candidates.
16	We'll come to that.		
16 17	We if come to that. Sorry, Dr. Rodden. I was actually asking a	17	Given the line-up in 2012 of who filed to run,
		17 18	Given the line-up in 2012 of who filed to run, if we try to examine how this election played out and
17	Q. Sorry, Dr. Rodden. I was actually asking a		·
17 18	Q. Sorry, Dr. Rodden. I was actually asking a much simpler question.	18	if we try to examine how this election played out and
17 18 19	Q. Sorry, Dr. Rodden. I was actually asking a much simpler question.A. I understand.	18 19	if we try to examine how this election played out and understand whether or not block voting led to led to
17 18 19 20	Q. Sorry, Dr. Rodden. I was actually asking a much simpler question.A. I understand.Q. It was not even wins or losses. Just fair to	18 19 20	if we try to examine how this election played out and understand whether or not block voting led to led to the losses that we will soon, I presume, tally up in this
17 18 19 20 21	 Q. Sorry, Dr. Rodden. I was actually asking a much simpler question. A. I understand. Q. It was not even wins or losses. Just fair to say that Barbara Morris received substantially more 	18 19 20 21	if we try to examine how this election played out and understand whether or not block voting led to led to the losses that we will soon, I presume, tally up in this column, then some of this context is necessary to
17 18 19 20 21 22	 Q. Sorry, Dr. Rodden. I was actually asking a much simpler question. A. I understand. Q. It was not even wins or losses. Just fair to say that Barbara Morris received substantially more support from black voters than the other two candidates in 	18 19 20 21 22	if we try to examine how this election played out and understand whether or not block voting led to led to the losses that we will soon, I presume, tally up in this column, then some of this context is necessary to understand. But I realize I'm getting ahead of myself and

	Page 225		Page 227
1	wins or losses. I just asked the question of whether you	1	voters; is that correct?
2	believe that in order to elect their preferred candidates,	2	A. Yes.
3	minority voters should be obliged under some circumstances	3	Q. And their level of support is statistically
4	to abandon one of their votes in a multi-seat contest.	4	significantly different from that of other candidates
5	A. You're asking a normative question whether I	5	amongst white voters, correct?
6	think that is a good thing?	6	A. Yes.
7	Q. Just	7	Q. So using this decision rule of statistical
8	A. I don't I don't have a strong opinion on	8	significance, they are white-preferred candidates and
9	that. I believe the task here is to analyze the	9	there are two white-preferred candidates in 2013, correct?
10	conditions set forth by the Voting Rights Act and the	10	A. Using this rule of thumb, correct, yes.
11	Gingles Supreme Court decision, which doesn't ask me to	11	Q. Right, this rule of thumb. And Brown and
12	make a normative judgment about electoral systems and what	12	Hogshead were both elected, correct?
13	how many ballots they ask a person to cast under	13	A. Yes.
14	different conditions.	14	Q. And both Brown and Hogshead are white,
15	Q. One thing you mentioned, though, I believe you	15	correct?
16	said that Ms. Morris' loss could have been averted if more	16	A. Correct.
17	white voters voted for her; is that correct?	17	Q. Okay. Amongst black voters Henson is the
18	A. Sure.	18	clear top choice amongst black voters, correct? His point
19	Q. In Paragraph 57 of your report where you talk	19	estimate for support is higher than the upper bounds of
20	about the 2012 election, the third to last sentence you	20	the confidence interval for any other candidate amongst
21	write it's about five lines from the bottom, you write,	21	black voters, correct?
22	"Like Mr. Henson, Ms. Morris failed to achieve a majority	22	A. Correct.
23	of the votes cast even in the precincts where 80 percent	23	Q. And the second highest candidate in terms of
24	of the voting age population was African-American."	24	estimated black support is Hogshead at about 25 percent,
25	I read that correctly, right?	25	correct?
1	Page 226	1	Page 228
1	A. That's correct, yes.	1 2	A. Yes.
2	A. That's correct, yes.Q. Now, the only way in a two-seat election to	2	A. Yes. Q. And I just want to compare Henson and Hogshead
2	A. That's correct, yes. Q. Now, the only way in a two-seat election to get a majority of votes cast is if some of your supporters	2	A. Yes. Q. And I just want to compare Henson and Hogshead here for a minute. Henson is at about 38.7 percent; is
2 3 4	A. That's correct, yes. Q. Now, the only way in a two-seat election to get a majority of votes cast is if some of your supporters engaged in single-shot voting, correct?	2 3 4	A. Yes. Q. And I just want to compare Henson and Hogshead here for a minute. Henson is at about 38.7 percent; is that correct, in terms of black support?
2 3 4 5	 A. That's correct, yes. Q. Now, the only way in a two-seat election to get a majority of votes cast is if some of your supporters engaged in single-shot voting, correct? A. Correct. 	2 3 4 5	A. Yes. Q. And I just want to compare Henson and Hogshead here for a minute. Henson is at about 38.7 percent; is that correct, in terms of black support? A. Yes, that sounds right.
2 3 4	 A. That's correct, yes. Q. Now, the only way in a two-seat election to get a majority of votes cast is if some of your supporters engaged in single-shot voting, correct? A. Correct. Q. So are you saying here that it is remarkable 	2 3 4	A. Yes. Q. And I just want to compare Henson and Hogshead here for a minute. Henson is at about 38.7 percent; is that correct, in terms of black support? A. Yes, that sounds right. Q. Okay. And that means Hogshead got a little
2 3 4 5 6	 A. That's correct, yes. Q. Now, the only way in a two-seat election to get a majority of votes cast is if some of your supporters engaged in single-shot voting, correct? A. Correct. Q. So are you saying here that it is remarkable in some sense that more black voters did not engage in 	2 3 4 5 6	A. Yes. Q. And I just want to compare Henson and Hogshead here for a minute. Henson is at about 38.7 percent; is that correct, in terms of black support? A. Yes, that sounds right.
2 3 4 5 6 7	A. That's correct, yes. Q. Now, the only way in a two-seat election to get a majority of votes cast is if some of your supporters engaged in single-shot voting, correct? A. Correct. Q. So are you saying here that it is remarkable in some sense that more black voters did not engage in single-shot voting for Ms. Morris?	2 3 4 5 6 7	A. Yes. Q. And I just want to compare Henson and Hogshead here for a minute. Henson is at about 38.7 percent; is that correct, in terms of black support? A. Yes, that sounds right. Q. Okay. And that means Hogshead got a little less than two-thirds of the estimated support as Henson amongst black voters; is that correct?
2 3 4 5 6 7 8	 A. That's correct, yes. Q. Now, the only way in a two-seat election to get a majority of votes cast is if some of your supporters engaged in single-shot voting, correct? A. Correct. Q. So are you saying here that it is remarkable in some sense that more black voters did not engage in 	2 3 4 5 6 7 8	A. Yes. Q. And I just want to compare Henson and Hogshead here for a minute. Henson is at about 38.7 percent; is that correct, in terms of black support? A. Yes, that sounds right. Q. Okay. And that means Hogshead got a little less than two-thirds of the estimated support as Henson
2 3 4 5 6 7 8 9	 A. That's correct, yes. Q. Now, the only way in a two-seat election to get a majority of votes cast is if some of your supporters engaged in single-shot voting, correct? A. Correct. Q. So are you saying here that it is remarkable in some sense that more black voters did not engage in single-shot voting for Ms. Morris? A. Am I saying that's remarkable? 	2 3 4 5 6 7 8	A. Yes. Q. And I just want to compare Henson and Hogshead here for a minute. Henson is at about 38.7 percent; is that correct, in terms of black support? A. Yes, that sounds right. Q. Okay. And that means Hogshead got a little less than two-thirds of the estimated support as Henson amongst black voters; is that correct? A. About right.
2 3 4 5 6 7 8 9	 A. That's correct, yes. Q. Now, the only way in a two-seat election to get a majority of votes cast is if some of your supporters engaged in single-shot voting, correct? A. Correct. Q. So are you saying here that it is remarkable in some sense that more black voters did not engage in single-shot voting for Ms. Morris? A. Am I saying that's remarkable? Q. Uh-huh. 	2 3 4 5 6 7 8 9	A. Yes. Q. And I just want to compare Henson and Hogshead here for a minute. Henson is at about 38.7 percent; is that correct, in terms of black support? A. Yes, that sounds right. Q. Okay. And that means Hogshead got a little less than two-thirds of the estimated support as Henson amongst black voters; is that correct? A. About right. Q. Okay. And fair to say that Henson got
2 3 4 5 6 7 8 9 10	 A. That's correct, yes. Q. Now, the only way in a two-seat election to get a majority of votes cast is if some of your supporters engaged in single-shot voting, correct? A. Correct. Q. So are you saying here that it is remarkable in some sense that more black voters did not engage in single-shot voting for Ms. Morris? A. Am I saying that's remarkable? Q. Uh-huh. A. No, I don't think I said that. 	2 3 4 5 6 7 8 9 10	A. Yes. Q. And I just want to compare Henson and Hogshead here for a minute. Henson is at about 38.7 percent; is that correct, in terms of black support? A. Yes, that sounds right. Q. Okay. And that means Hogshead got a little less than two-thirds of the estimated support as Henson amongst black voters; is that correct? A. About right. Q. Okay. And fair to say that Henson got substantially more support than Hogshead amongst black
2 3 4 5 6 7 8 9 10 11	 A. That's correct, yes. Q. Now, the only way in a two-seat election to get a majority of votes cast is if some of your supporters engaged in single-shot voting, correct? A. Correct. Q. So are you saying here that it is remarkable in some sense that more black voters did not engage in single-shot voting for Ms. Morris? A. Am I saying that's remarkable? Q. Uh-huh. A. No, I don't think I said that. Q. Okay. Well, you're noting that she failed to 	2 3 4 5 6 7 8 9 10 11	A. Yes. Q. And I just want to compare Henson and Hogshead here for a minute. Henson is at about 38.7 percent; is that correct, in terms of black support? A. Yes, that sounds right. Q. Okay. And that means Hogshead got a little less than two-thirds of the estimated support as Henson amongst black voters; is that correct? A. About right. Q. Okay. And fair to say that Henson got substantially more support than Hogshead amongst black voters?
2 3 4 5 6 7 8 9 10 11 12 13	A. That's correct, yes. Q. Now, the only way in a two-seat election to get a majority of votes cast is if some of your supporters engaged in single-shot voting, correct? A. Correct. Q. So are you saying here that it is remarkable in some sense that more black voters did not engage in single-shot voting for Ms. Morris? A. Am I saying that's remarkable? Q. Uh-huh. A. No, I don't think I said that. Q. Okay. Well, you're noting that she failed to receive a majority of votes cast in predominantly	2 3 4 5 6 7 8 9 10 11 12 13	A. Yes. Q. And I just want to compare Henson and Hogshead here for a minute. Henson is at about 38.7 percent; is that correct, in terms of black support? A. Yes, that sounds right. Q. Okay. And that means Hogshead got a little less than two-thirds of the estimated support as Henson amongst black voters; is that correct? A. About right. Q. Okay. And fair to say that Henson got substantially more support than Hogshead amongst black voters? A. Now we're cutting it close with substantially.
2 3 4 5 6 7 8 9 10 11 12 13	A. That's correct, yes. Q. Now, the only way in a two-seat election to get a majority of votes cast is if some of your supporters engaged in single-shot voting, correct? A. Correct. Q. So are you saying here that it is remarkable in some sense that more black voters did not engage in single-shot voting for Ms. Morris? A. Am I saying that's remarkable? Q. Uh-huh. A. No, I don't think I said that. Q. Okay. Well, you're noting that she failed to receive a majority of votes cast in predominantly African-American precincts. But the only way she could	2 3 4 5 6 7 8 9 10 11 12 13 14	A. Yes. Q. And I just want to compare Henson and Hogshead here for a minute. Henson is at about 38.7 percent; is that correct, in terms of black support? A. Yes, that sounds right. Q. Okay. And that means Hogshead got a little less than two-thirds of the estimated support as Henson amongst black voters; is that correct? A. About right. Q. Okay. And fair to say that Henson got substantially more support than Hogshead amongst black voters? A. Now we're cutting it close with substantially. It's higher.
2 3 4 5 6 7 8 9 10 11 12 13 14 15	A. That's correct, yes. Q. Now, the only way in a two-seat election to get a majority of votes cast is if some of your supporters engaged in single-shot voting, correct? A. Correct. Q. So are you saying here that it is remarkable in some sense that more black voters did not engage in single-shot voting for Ms. Morris? A. Am I saying that's remarkable? Q. Uh-huh. A. No, I don't think I said that. Q. Okay. Well, you're noting that she failed to receive a majority of votes cast in predominantly African-American precincts. But the only way she could have gotten a majority of votes in any precinct is if a	2 3 4 5 6 7 8 9 10 11 12 13 14	A. Yes. Q. And I just want to compare Henson and Hogshead here for a minute. Henson is at about 38.7 percent; is that correct, in terms of black support? A. Yes, that sounds right. Q. Okay. And that means Hogshead got a little less than two-thirds of the estimated support as Henson amongst black voters; is that correct? A. About right. Q. Okay. And fair to say that Henson got substantially more support than Hogshead amongst black voters? A. Now we're cutting it close with substantially. It's higher. Q. Okay. Now, we don't know, to a degree of
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	A. That's correct, yes. Q. Now, the only way in a two-seat election to get a majority of votes cast is if some of your supporters engaged in single-shot voting, correct? A. Correct. Q. So are you saying here that it is remarkable in some sense that more black voters did not engage in single-shot voting for Ms. Morris? A. Am I saying that's remarkable? Q. Uh-huh. A. No, I don't think I said that. Q. Okay. Well, you're noting that she failed to receive a majority of votes cast in predominantly African-American precincts. But the only way she could have gotten a majority of votes in any precinct is if a number of her supporters at that precinct engaged in	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	A. Yes. Q. And I just want to compare Henson and Hogshead here for a minute. Henson is at about 38.7 percent; is that correct, in terms of black support? A. Yes, that sounds right. Q. Okay. And that means Hogshead got a little less than two-thirds of the estimated support as Henson amongst black voters; is that correct? A. About right. Q. Okay. And fair to say that Henson got substantially more support than Hogshead amongst black voters? A. Now we're cutting it close with substantially. It's higher. Q. Okay. Now, we don't know, to a degree of statistical certitude, that Hogshead was the second choice
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	A. That's correct, yes. Q. Now, the only way in a two-seat election to get a majority of votes cast is if some of your supporters engaged in single-shot voting, correct? A. Correct. Q. So are you saying here that it is remarkable in some sense that more black voters did not engage in single-shot voting for Ms. Morris? A. Am I saying that's remarkable? Q. Uh-huh. A. No, I don't think I said that. Q. Okay. Well, you're noting that she failed to receive a majority of votes cast in predominantly African-American precincts. But the only way she could have gotten a majority of votes in any precinct is if a number of her supporters at that precinct engaged in single-shot voting, correct?	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	A. Yes. Q. And I just want to compare Henson and Hogshead here for a minute. Henson is at about 38.7 percent; is that correct, in terms of black support? A. Yes, that sounds right. Q. Okay. And that means Hogshead got a little less than two-thirds of the estimated support as Henson amongst black voters; is that correct? A. About right. Q. Okay. And fair to say that Henson got substantially more support than Hogshead amongst black voters? A. Now we're cutting it close with substantially. It's higher. Q. Okay. Now, we don't know, to a degree of statistical certitude, that Hogshead was the second choice amongst black voters, correct?
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	A. That's correct, yes. Q. Now, the only way in a two-seat election to get a majority of votes cast is if some of your supporters engaged in single-shot voting, correct? A. Correct. Q. So are you saying here that it is remarkable in some sense that more black voters did not engage in single-shot voting for Ms. Morris? A. Am I saying that's remarkable? Q. Uh-huh. A. No, I don't think I said that. Q. Okay. Well, you're noting that she failed to receive a majority of votes cast in predominantly African-American precincts. But the only way she could have gotten a majority of votes in any precinct is if a number of her supporters at that precinct engaged in single-shot voting, correct? A. Correct.	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	A. Yes. Q. And I just want to compare Henson and Hogshead here for a minute. Henson is at about 38.7 percent; is that correct, in terms of black support? A. Yes, that sounds right. Q. Okay. And that means Hogshead got a little less than two-thirds of the estimated support as Henson amongst black voters; is that correct? A. About right. Q. Okay. And fair to say that Henson got substantially more support than Hogshead amongst black voters? A. Now we're cutting it close with substantially. It's higher. Q. Okay. Now, we don't know, to a degree of statistical certitude, that Hogshead was the second choice amongst black voters, correct? A. We've discussed that, right.
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	A. That's correct, yes. Q. Now, the only way in a two-seat election to get a majority of votes cast is if some of your supporters engaged in single-shot voting, correct? A. Correct. Q. So are you saying here that it is remarkable in some sense that more black voters did not engage in single-shot voting for Ms. Morris? A. Am I saying that's remarkable? Q. Uh-huh. A. No, I don't think I said that. Q. Okay. Well, you're noting that she failed to receive a majority of votes cast in predominantly African-American precincts. But the only way she could have gotten a majority of votes in any precinct is if a number of her supporters at that precinct engaged in single-shot voting, correct? A. Correct. Q. Okay. Let's talk about the 2013 election.	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	A. Yes. Q. And I just want to compare Henson and Hogshead here for a minute. Henson is at about 38.7 percent; is that correct, in terms of black support? A. Yes, that sounds right. Q. Okay. And that means Hogshead got a little less than two-thirds of the estimated support as Henson amongst black voters; is that correct? A. About right. Q. Okay. And fair to say that Henson got substantially more support than Hogshead amongst black voters? A. Now we're cutting it close with substantially. It's higher. Q. Okay. Now, we don't know, to a degree of statistical certitude, that Hogshead was the second choice amongst black voters, correct? A. We've discussed that, right. Q. So using the statistical significance rule of
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	A. That's correct, yes. Q. Now, the only way in a two-seat election to get a majority of votes cast is if some of your supporters engaged in single-shot voting, correct? A. Correct. Q. So are you saying here that it is remarkable in some sense that more black voters did not engage in single-shot voting for Ms. Morris? A. Am I saying that's remarkable? Q. Uh-huh. A. No, I don't think I said that. Q. Okay. Well, you're noting that she failed to receive a majority of votes cast in predominantly African-American precincts. But the only way she could have gotten a majority of votes in any precinct is if a number of her supporters at that precinct engaged in single-shot voting, correct? A. Correct. Q. Okay. Let's talk about the 2013 election. A. Sure.	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	A. Yes. Q. And I just want to compare Henson and Hogshead here for a minute. Henson is at about 38.7 percent; is that correct, in terms of black support? A. Yes, that sounds right. Q. Okay. And that means Hogshead got a little less than two-thirds of the estimated support as Henson amongst black voters; is that correct? A. About right. Q. Okay. And fair to say that Henson got substantially more support than Hogshead amongst black voters? A. Now we're cutting it close with substantially. It's higher. Q. Okay. Now, we don't know, to a degree of statistical certitude, that Hogshead was the second choice amongst black voters, correct? A. We've discussed that, right. Q. So using the statistical significance rule of thumb as a decision rule here, we have one candidate of
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	A. That's correct, yes. Q. Now, the only way in a two-seat election to get a majority of votes cast is if some of your supporters engaged in single-shot voting, correct? A. Correct. Q. So are you saying here that it is remarkable in some sense that more black voters did not engage in single-shot voting for Ms. Morris? A. Am I saying that's remarkable? Q. Uh-huh. A. No, I don't think I said that. Q. Okay. Well, you're noting that she failed to receive a majority of votes cast in predominantly African-American precincts. But the only way she could have gotten a majority of votes in any precinct is if a number of her supporters at that precinct engaged in single-shot voting, correct? A. Correct. Q. Okay. Let's talk about the 2013 election. A. Sure. Q. There are two seats up in that election,	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	A. Yes. Q. And I just want to compare Henson and Hogshead here for a minute. Henson is at about 38.7 percent; is that correct, in terms of black support? A. Yes, that sounds right. Q. Okay. And that means Hogshead got a little less than two-thirds of the estimated support as Henson amongst black voters; is that correct? A. About right. Q. Okay. And fair to say that Henson got substantially more support than Hogshead amongst black voters? A. Now we're cutting it close with substantially. It's higher. Q. Okay. Now, we don't know, to a degree of statistical certitude, that Hogshead was the second choice amongst black voters, correct? A. We've discussed that, right. Q. So using the statistical significance rule of thumb as a decision rule here, we have one candidate of choice amongst black voters in 2013 and that's Henson,
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	A. That's correct, yes. Q. Now, the only way in a two-seat election to get a majority of votes cast is if some of your supporters engaged in single-shot voting, correct? A. Correct. Q. So are you saying here that it is remarkable in some sense that more black voters did not engage in single-shot voting for Ms. Morris? A. Am I saying that's remarkable? Q. Uh-huh. A. No, I don't think I said that. Q. Okay. Well, you're noting that she failed to receive a majority of votes cast in predominantly African-American precincts. But the only way she could have gotten a majority of votes in any precinct is if a number of her supporters at that precinct engaged in single-shot voting, correct? A. Correct. Q. Okay. Let's talk about the 2013 election. A. Sure. Q. There are two seats up in that election, correct?	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	A. Yes. Q. And I just want to compare Henson and Hogshead here for a minute. Henson is at about 38.7 percent; is that correct, in terms of black support? A. Yes, that sounds right. Q. Okay. And that means Hogshead got a little less than two-thirds of the estimated support as Henson amongst black voters; is that correct? A. About right. Q. Okay. And fair to say that Henson got substantially more support than Hogshead amongst black voters? A. Now we're cutting it close with substantially. It's higher. Q. Okay. Now, we don't know, to a degree of statistical certitude, that Hogshead was the second choice amongst black voters, correct? A. We've discussed that, right. Q. So using the statistical significance rule of thumb as a decision rule here, we have one candidate of choice amongst black voters in 2013 and that's Henson, correct?
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	A. That's correct, yes. Q. Now, the only way in a two-seat election to get a majority of votes cast is if some of your supporters engaged in single-shot voting, correct? A. Correct. Q. So are you saying here that it is remarkable in some sense that more black voters did not engage in single-shot voting for Ms. Morris? A. Am I saying that's remarkable? Q. Uh-huh. A. No, I don't think I said that. Q. Okay. Well, you're noting that she failed to receive a majority of votes cast in predominantly African-American precincts. But the only way she could have gotten a majority of votes in any precinct is if a number of her supporters at that precinct engaged in single-shot voting, correct? A. Correct. Q. Okay. Let's talk about the 2013 election. A. Sure. Q. There are two seats up in that election, correct? A. Yes.	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	A. Yes. Q. And I just want to compare Henson and Hogshead here for a minute. Henson is at about 38.7 percent; is that correct, in terms of black support? A. Yes, that sounds right. Q. Okay. And that means Hogshead got a little less than two-thirds of the estimated support as Henson amongst black voters; is that correct? A. About right. Q. Okay. And fair to say that Henson got substantially more support than Hogshead amongst black voters? A. Now we're cutting it close with substantially. It's higher. Q. Okay. Now, we don't know, to a degree of statistical certitude, that Hogshead was the second choice amongst black voters, correct? A. We've discussed that, right. Q. So using the statistical significance rule of thumb as a decision rule here, we have one candidate of choice amongst black voters in 2013 and that's Henson, correct? A. Correct.

1	Page 229		Page 231
	-	1	_
	Q. And Henson is African-American, correct?	1 2	A. Using your rule of thumb, she was tied for
2	A. Correct.	3	second.
3	Q. I want to ask you about what you write in your	4	Q. Okay.
4	report about Ms. Hogshead on Page 29, Paragraph	5	A. I mean
5	A. One moment. I'm still filling out the form.	6	Q. But just using the point estimates I know
6 7	Q. Sure. Take your time. Let me know when	7	you're right. We're switching between different decision rules.
8	you're ready.	8	A. Okay.
9	A. So Henson was there was one preferred	9	Q. I'll concede that.
10	candidate, we agreed, in 2013? Q. Uh-huh.	10	A. We'll do that.
11		11	Q. But using your decision rule of the point
12	A. And he was not successful, okay.	12	estimates, Leslie Hogshead finished third out of four
13	Q. So I would like to ask you about what you say	13	candidates among black voters, correct?
14	about Leslie Hogshead here. On Page 72, Paragraph 54. A. I don't have that many pages.	14	A. Yes, but okay. Sure.
15		15	Q. And in 2004 Leslie Hogshead ran again, right?
16	Q. Oh, sorry. Page 29, Paragraph 54. I don't know why I said that.	16	A. Yes.
17	A. Okay.	17	Q. And there were five candidates in 2004, right?
18	Q. About five lines down you have a sentence here	18	A. Yes.
19	that starts with although, "Although the estimates	19	Q. And according to your point estimates and
20	indicate that Mr. Henson had higher support among	20	using the one of the two decision rules that you have
21	African-Americans than the other candidates, the	21	suggested here for defining candidates of choice, of the
22	confidence interval overlaps substantially with that of	22	five candidates in 2004, Leslie Hogshead had the lowest
23	Ms. Hogshead who traditionally performs well among	23	level of support amongst black voters, correct?
24	African-Americans in the southern parts" "southern part	24	A. Correct.
25	of the districts. See other years in Figure 8."	25	Q. Okay.
	Page 230		Page 232
1	So I want to look at Figure 8. And where in	1	A D 1'6
2			 A. But if we compare that level of support to a
_	Figure 8 does it indicate that Ms. Hogshead performs well	2	A. But if we compare that level of support to a lot of other candidates, as we scan up and down Figure 8,
3	rigure 8 does it indicate that Ms. Hogshead performs well traditionally among black voters in the southern part of	2 3	
			lot of other candidates, as we scan up and down Figure 8,
3	traditionally among black voters in the southern part of	3	lot of other candidates, as we scan up and down Figure 8, which is what I was directing the reader to do, her
3 4	traditionally among black voters in the southern part of the district?	3 4	lot of other candidates, as we scan up and down Figure 8, which is what I was directing the reader to do, her support is for white candidates, it is relatively high.
3 4 5	traditionally among black voters in the southern part of the district? A. I'm trying to find the years when she was	3 4 5	lot of other candidates, as we scan up and down Figure 8, which is what I was directing the reader to do, her support is for white candidates, it is relatively high. That's only the point I was trying to make in the sentence
3 4 5 6	traditionally among black voters in the southern part of the district? A. I'm trying to find the years when she was running. Let's see. She was	3 4 5 6	lot of other candidates, as we scan up and down Figure 8, which is what I was directing the reader to do, her support is for white candidates, it is relatively high. That's only the point I was trying to make in the sentence that you're referring to here is that relative to other
3 4 5 6 7	traditionally among black voters in the southern part of the district? A. I'm trying to find the years when she was running. Let's see. She was Q. 2001, 2004, 2007, 2010 and 2013.	3 4 5 6 7	lot of other candidates, as we scan up and down Figure 8, which is what I was directing the reader to do, her support is for white candidates, it is relatively high. That's only the point I was trying to make in the sentence that you're referring to here is that relative to other white candidates, Hogshead's mean, somewhere around 19
3 4 5 6 7 8 9	traditionally among black voters in the southern part of the district? A. I'm trying to find the years when she was running. Let's see. She was Q. 2001, 2004, 2007, 2010 and 2013. A. That's 1 and 13? Q. Yes. 1, 4, 7 and 10 are uncontested, so 1, 4, and 13. I mean what does Figure 8 you reference Figure	3 4 5 6 7 8 9	lot of other candidates, as we scan up and down Figure 8, which is what I was directing the reader to do, her support is for white candidates, it is relatively high. That's only the point I was trying to make in the sentence that you're referring to here is that relative to other white candidates, Hogshead's mean, somewhere around 19 percent, I haven't calculated it, but it's higher than many other white candidates. Q. Uh-huh. Uh-huh. And that's because white
3 4 5 6 7 8 9 10	traditionally among black voters in the southern part of the district? A. I'm trying to find the years when she was running. Let's see. She was Q. 2001, 2004, 2007, 2010 and 2013. A. That's 1 and 13? Q. Yes. 1, 4, 7 and 10 are uncontested, so 1, 4, and 13. I mean what does Figure 8 you reference Figure 8 for this proposition, so I'm trying to understand.	3 4 5 6 7 8 9 10	lot of other candidates, as we scan up and down Figure 8, which is what I was directing the reader to do, her support is for white candidates, it is relatively high. That's only the point I was trying to make in the sentence that you're referring to here is that relative to other white candidates, Hogshead's mean, somewhere around 19 percent, I haven't calculated it, but it's higher than many other white candidates.
3 4 5 6 7 8 9 10 11	traditionally among black voters in the southern part of the district? A. I'm trying to find the years when she was running. Let's see. She was Q. 2001, 2004, 2007, 2010 and 2013. A. That's 1 and 13? Q. Yes. 1, 4, 7 and 10 are uncontested, so 1, 4, and 13. I mean what does Figure 8 you reference Figure 8 for this proposition, so I'm trying to understand. A. Sure. I'm just looking at the fact that she	3 4 5 6 7 8 9 10 11	lot of other candidates, as we scan up and down Figure 8, which is what I was directing the reader to do, her support is for white candidates, it is relatively high. That's only the point I was trying to make in the sentence that you're referring to here is that relative to other white candidates, Hogshead's mean, somewhere around 19 percent, I haven't calculated it, but it's higher than many other white candidates. Q. Uh-huh. Uh-huh. And that's because white candidates typically perform worse amongst black voters than black candidates, right?
3 4 5 6 7 8 9 10 11 12 13	traditionally among black voters in the southern part of the district? A. I'm trying to find the years when she was running. Let's see. She was Q. 2001, 2004, 2007, 2010 and 2013. A. That's 1 and 13? Q. Yes. 1, 4, 7 and 10 are uncontested, so 1, 4, and 13. I mean what does Figure 8 you reference Figure 8 for this proposition, so I'm trying to understand. A. Sure. I'm just looking at the fact that she receives 20 percent of the vote in 2001.	3 4 5 6 7 8 9 10 11 12 13	lot of other candidates, as we scan up and down Figure 8, which is what I was directing the reader to do, her support is for white candidates, it is relatively high. That's only the point I was trying to make in the sentence that you're referring to here is that relative to other white candidates, Hogshead's mean, somewhere around 19 percent, I haven't calculated it, but it's higher than many other white candidates. Q. Uh-huh. Uh-huh. And that's because white candidates typically perform worse amongst black voters than black candidates, right? A. By some yes, there is the correlations
3 4 5 6 7 8 9 10 11 12 13 14	traditionally among black voters in the southern part of the district? A. I'm trying to find the years when she was running. Let's see. She was Q. 2001, 2004, 2007, 2010 and 2013. A. That's 1 and 13? Q. Yes. 1, 4, 7 and 10 are uncontested, so 1, 4, and 13. I mean what does Figure 8 you reference Figure 8 for this proposition, so I'm trying to understand. A. Sure. I'm just looking at the fact that she receives 20 percent of the vote in 2001. Q. Uh-huh.	3 4 5 6 7 8 9 10 11 12 13	lot of other candidates, as we scan up and down Figure 8, which is what I was directing the reader to do, her support is for white candidates, it is relatively high. That's only the point I was trying to make in the sentence that you're referring to here is that relative to other white candidates, Hogshead's mean, somewhere around 19 percent, I haven't calculated it, but it's higher than many other white candidates. Q. Uh-huh. Uh-huh. And that's because white candidates typically perform worse amongst black voters than black candidates, right? A. By some yes, there is the correlations we've seen are there is a correlation there.
3 4 5 6 7 8 9 10 11 12 13 14 15	traditionally among black voters in the southern part of the district? A. I'm trying to find the years when she was running. Let's see. She was Q. 2001, 2004, 2007, 2010 and 2013. A. That's 1 and 13? Q. Yes. 1, 4, 7 and 10 are uncontested, so 1, 4, and 13. I mean what does Figure 8 you reference Figure 8 for this proposition, so I'm trying to understand. A. Sure. I'm just looking at the fact that she receives 20 percent of the vote in 2001. Q. Uh-huh. A. It's a bit lower in 2004.	3 4 5 6 7 8 9 10 11 12 13 14 15	lot of other candidates, as we scan up and down Figure 8, which is what I was directing the reader to do, her support is for white candidates, it is relatively high. That's only the point I was trying to make in the sentence that you're referring to here is that relative to other white candidates, Hogshead's mean, somewhere around 19 percent, I haven't calculated it, but it's higher than many other white candidates. Q. Uh-huh. Uh-huh. And that's because white candidates typically perform worse amongst black voters than black candidates, right? A. By some yes, there is the correlations we've seen are there is a correlation there. Q. And in your opinion, 20 percent black support
3 4 5 6 7 8 9 10 11 12 13 14 15 16	traditionally among black voters in the southern part of the district? A. I'm trying to find the years when she was running. Let's see. She was Q. 2001, 2004, 2007, 2010 and 2013. A. That's 1 and 13? Q. Yes. 1, 4, 7 and 10 are uncontested, so 1, 4, and 13. I mean what does Figure 8 you reference Figure 8 for this proposition, so I'm trying to understand. A. Sure. I'm just looking at the fact that she receives 20 percent of the vote in 2001. Q. Uh-huh. A. It's a bit lower in 2004. Q. Uh-huh. Well, let's talk about those two	3 4 5 6 7 8 9 10 11 12 13 14 15	lot of other candidates, as we scan up and down Figure 8, which is what I was directing the reader to do, her support is for white candidates, it is relatively high. That's only the point I was trying to make in the sentence that you're referring to here is that relative to other white candidates, Hogshead's mean, somewhere around 19 percent, I haven't calculated it, but it's higher than many other white candidates. Q. Uh-huh. Uh-huh. And that's because white candidates typically perform worse amongst black voters than black candidates, right? A. By some yes, there is the correlations we've seen are there is a correlation there. Q. And in your opinion, 20 percent black support is pretty good for a white candidate in the
3 4 5 6 7 8 9 10 11 12 13 14 15 16	traditionally among black voters in the southern part of the district? A. I'm trying to find the years when she was running. Let's see. She was Q. 2001, 2004, 2007, 2010 and 2013. A. That's 1 and 13? Q. Yes. 1, 4, 7 and 10 are uncontested, so 1, 4, and 13. I mean what does Figure 8 you reference Figure 8 for this proposition, so I'm trying to understand. A. Sure. I'm just looking at the fact that she receives 20 percent of the vote in 2001. Q. Uh-huh. A. It's a bit lower in 2004. Q. Uh-huh. Well, let's talk about those two elections, if you don't mind, for a second.	3 4 5 6 7 8 9 10 11 12 13 14 15 16	lot of other candidates, as we scan up and down Figure 8, which is what I was directing the reader to do, her support is for white candidates, it is relatively high. That's only the point I was trying to make in the sentence that you're referring to here is that relative to other white candidates, Hogshead's mean, somewhere around 19 percent, I haven't calculated it, but it's higher than many other white candidates. Q. Uh-huh. Uh-huh. And that's because white candidates typically perform worse amongst black voters than black candidates, right? A. By some yes, there is the correlations we've seen are there is a correlation there. Q. And in your opinion, 20 percent black support is pretty good for a white candidate in the Ferguson-Florissant school district, correct?
3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	traditionally among black voters in the southern part of the district? A. I'm trying to find the years when she was running. Let's see. She was Q. 2001, 2004, 2007, 2010 and 2013. A. That's 1 and 13? Q. Yes. 1, 4, 7 and 10 are uncontested, so 1, 4, and 13. I mean what does Figure 8 you reference Figure 8 for this proposition, so I'm trying to understand. A. Sure. I'm just looking at the fact that she receives 20 percent of the vote in 2001. Q. Uh-huh. A. It's a bit lower in 2004. Q. Uh-huh. Well, let's talk about those two elections, if you don't mind, for a second. A. Okay.	3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	lot of other candidates, as we scan up and down Figure 8, which is what I was directing the reader to do, her support is for white candidates, it is relatively high. That's only the point I was trying to make in the sentence that you're referring to here is that relative to other white candidates, Hogshead's mean, somewhere around 19 percent, I haven't calculated it, but it's higher than many other white candidates. Q. Uh-huh. Uh-huh. And that's because white candidates typically perform worse amongst black voters than black candidates, right? A. By some yes, there is the correlations we've seen are there is a correlation there. Q. And in your opinion, 20 percent black support is pretty good for a white candidate in the Ferguson-Florissant school district, correct? A. It varies a great deal from one election to
3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	traditionally among black voters in the southern part of the district? A. I'm trying to find the years when she was running. Let's see. She was Q. 2001, 2004, 2007, 2010 and 2013. A. That's 1 and 13? Q. Yes. 1, 4, 7 and 10 are uncontested, so 1, 4, and 13. I mean what does Figure 8 you reference Figure 8 for this proposition, so I'm trying to understand. A. Sure. I'm just looking at the fact that she receives 20 percent of the vote in 2001. Q. Uh-huh. A. It's a bit lower in 2004. Q. Uh-huh. Well, let's talk about those two elections, if you don't mind, for a second. A. Okay. Q. Leslie Hogshead ran in 2001, correct?	3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	lot of other candidates, as we scan up and down Figure 8, which is what I was directing the reader to do, her support is for white candidates, it is relatively high. That's only the point I was trying to make in the sentence that you're referring to here is that relative to other white candidates, Hogshead's mean, somewhere around 19 percent, I haven't calculated it, but it's higher than many other white candidates. Q. Uh-huh. Uh-huh. And that's because white candidates typically perform worse amongst black voters than black candidates, right? A. By some yes, there is the correlations we've seen are there is a correlation there. Q. And in your opinion, 20 percent black support is pretty good for a white candidate in the Ferguson-Florissant school district, correct? A. It varies a great deal from one election to another. There are elections recently, if we would like
3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	traditionally among black voters in the southern part of the district? A. I'm trying to find the years when she was running. Let's see. She was Q. 2001, 2004, 2007, 2010 and 2013. A. That's 1 and 13? Q. Yes. 1, 4, 7 and 10 are uncontested, so 1, 4, and 13. I mean what does Figure 8 you reference Figure 8 for this proposition, so I'm trying to understand. A. Sure. I'm just looking at the fact that she receives 20 percent of the vote in 2001. Q. Uh-huh. A. It's a bit lower in 2004. Q. Uh-huh. Well, let's talk about those two elections, if you don't mind, for a second. A. Okay. Q. Leslie Hogshead ran in 2001, correct? A. Yes.	3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	lot of other candidates, as we scan up and down Figure 8, which is what I was directing the reader to do, her support is for white candidates, it is relatively high. That's only the point I was trying to make in the sentence that you're referring to here is that relative to other white candidates, Hogshead's mean, somewhere around 19 percent, I haven't calculated it, but it's higher than many other white candidates. Q. Uh-huh. Uh-huh. And that's because white candidates typically perform worse amongst black voters than black candidates, right? A. By some yes, there is the correlations we've seen are there is a correlation there. Q. And in your opinion, 20 percent black support is pretty good for a white candidate in the Ferguson-Florissant school district, correct? A. It varies a great deal from one election to another. There are elections recently, if we would like to make some comparisons, there are some elections in
3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	traditionally among black voters in the southern part of the district? A. I'm trying to find the years when she was running. Let's see. She was Q. 2001, 2004, 2007, 2010 and 2013. A. That's 1 and 13? Q. Yes. 1, 4, 7 and 10 are uncontested, so 1, 4, and 13. I mean what does Figure 8 you reference Figure 8 for this proposition, so I'm trying to understand. A. Sure. I'm just looking at the fact that she receives 20 percent of the vote in 2001. Q. Uh-huh. A. It's a bit lower in 2004. Q. Uh-huh. Well, let's talk about those two elections, if you don't mind, for a second. A. Okay. Q. Leslie Hogshead ran in 2001, correct? A. Yes. Q. There were four candidates in 2001, correct?	3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	lot of other candidates, as we scan up and down Figure 8, which is what I was directing the reader to do, her support is for white candidates, it is relatively high. That's only the point I was trying to make in the sentence that you're referring to here is that relative to other white candidates, Hogshead's mean, somewhere around 19 percent, I haven't calculated it, but it's higher than many other white candidates. Q. Uh-huh. Uh-huh. And that's because white candidates typically perform worse amongst black voters than black candidates, right? A. By some yes, there is the correlations we've seen are there is a correlation there. Q. And in your opinion, 20 percent black support is pretty good for a white candidate in the Ferguson-Florissant school district, correct? A. It varies a great deal from one election to another. There are elections recently, if we would like to make some comparisons, there are some elections in which African-American candidates I'm sorry white
3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	traditionally among black voters in the southern part of the district? A. I'm trying to find the years when she was running. Let's see. She was Q. 2001, 2004, 2007, 2010 and 2013. A. That's 1 and 13? Q. Yes. 1, 4, 7 and 10 are uncontested, so 1, 4, and 13. I mean what does Figure 8 you reference Figure 8 for this proposition, so I'm trying to understand. A. Sure. I'm just looking at the fact that she receives 20 percent of the vote in 2001. Q. Uh-huh. A. It's a bit lower in 2004. Q. Uh-huh. Well, let's talk about those two elections, if you don't mind, for a second. A. Okay. Q. Leslie Hogshead ran in 2001, correct? A. Yes. Q. There were four candidates in 2001, correct? A. Yes.	3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	lot of other candidates, as we scan up and down Figure 8, which is what I was directing the reader to do, her support is for white candidates, it is relatively high. That's only the point I was trying to make in the sentence that you're referring to here is that relative to other white candidates, Hogshead's mean, somewhere around 19 percent, I haven't calculated it, but it's higher than many other white candidates. Q. Uh-huh. Uh-huh. And that's because white candidates typically perform worse amongst black voters than black candidates, right? A. By some yes, there is the correlations we've seen are there is a correlation there. Q. And in your opinion, 20 percent black support is pretty good for a white candidate in the Ferguson-Florissant school district, correct? A. It varies a great deal from one election to another. There are elections recently, if we would like to make some comparisons, there are some elections in which African-American candidates I'm sorry white candidates receive unfortunately in Figure 8 I don't
3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	traditionally among black voters in the southern part of the district? A. I'm trying to find the years when she was running. Let's see. She was Q. 2001, 2004, 2007, 2010 and 2013. A. That's 1 and 13? Q. Yes. 1, 4, 7 and 10 are uncontested, so 1, 4, and 13. I mean what does Figure 8 you reference Figure 8 for this proposition, so I'm trying to understand. A. Sure. I'm just looking at the fact that she receives 20 percent of the vote in 2001. Q. Uh-huh. A. It's a bit lower in 2004. Q. Uh-huh. Well, let's talk about those two elections, if you don't mind, for a second. A. Okay. Q. Leslie Hogshead ran in 2001, correct? A. Yes. Q. There were four candidates in 2001, correct? A. Yes. Q. And of the four candidates, Leslie Hogshead	3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	lot of other candidates, as we scan up and down Figure 8, which is what I was directing the reader to do, her support is for white candidates, it is relatively high. That's only the point I was trying to make in the sentence that you're referring to here is that relative to other white candidates, Hogshead's mean, somewhere around 19 percent, I haven't calculated it, but it's higher than many other white candidates. Q. Uh-huh. Uh-huh. And that's because white candidates typically perform worse amongst black voters than black candidates, right? A. By some yes, there is the correlations we've seen are there is a correlation there. Q. And in your opinion, 20 percent black support is pretty good for a white candidate in the Ferguson-Florissant school district, correct? A. It varies a great deal from one election to another. There are elections recently, if we would like to make some comparisons, there are some elections in which African-American candidates I'm sorry white candidates receive unfortunately in Figure 8 I don't have the race of the candidates clearly marked, but we see
3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	traditionally among black voters in the southern part of the district? A. I'm trying to find the years when she was running. Let's see. She was Q. 2001, 2004, 2007, 2010 and 2013. A. That's 1 and 13? Q. Yes. 1, 4, 7 and 10 are uncontested, so 1, 4, and 13. I mean what does Figure 8 you reference Figure 8 for this proposition, so I'm trying to understand. A. Sure. I'm just looking at the fact that she receives 20 percent of the vote in 2001. Q. Uh-huh. A. It's a bit lower in 2004. Q. Uh-huh. Well, let's talk about those two elections, if you don't mind, for a second. A. Okay. Q. Leslie Hogshead ran in 2001, correct? A. Yes. Q. There were four candidates in 2001, correct? A. Yes.	3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	lot of other candidates, as we scan up and down Figure 8, which is what I was directing the reader to do, her support is for white candidates, it is relatively high. That's only the point I was trying to make in the sentence that you're referring to here is that relative to other white candidates, Hogshead's mean, somewhere around 19 percent, I haven't calculated it, but it's higher than many other white candidates. Q. Uh-huh. Uh-huh. And that's because white candidates typically perform worse amongst black voters than black candidates, right? A. By some yes, there is the correlations we've seen are there is a correlation there. Q. And in your opinion, 20 percent black support is pretty good for a white candidate in the Ferguson-Florissant school district, correct? A. It varies a great deal from one election to another. There are elections recently, if we would like to make some comparisons, there are some elections in which African-American candidates I'm sorry white candidates receive unfortunately in Figure 8 I don't

	Page 233		Page 235
1	Q. So I thought you said that Leslie Hogshead's	1	A. Yes.
2	support amongst black voters was relatively high for a	2	Q. So using the statistical significance rule of
3	white candidate.	3	thumb decision rule here, we can describe them fairly as
4	A. There are some who are higher.	4	black-preferred candidates, correct?
5	Q. You say it's relatively frequent for people to	5	A. We can.
6	be in the 25 for white candidates to be in the 25 to 30	6	Q. And that would mean three black-preferred
7	percent range amongst black voters?	7	candidates identifiable in this election, correct?
8	A. The question is whether it is relatively	8	A. Yes.
9	frequent?	9	Q. And of those three, one was elected,
10	Q. I thought that's what you said earlier, so I	10	Paulette-Thurman, correct?
11	just if I misheard you, then that's all I'm asking.	11	A. Correct.
12	A. I'm looking at a lot of data.	12	Q. Now, all three of these candidates are
13	Q. Yeah.	13	African-American, correct?
14	A. And forming some impressions. I'm not in a	14	A. Yes.
15	position to give you the kind of tell you about the	15	Q. Okay. Now, for white voters, the top
16	distribution of all of those candidates.	16	vote-getters were Chabot at 25.7 percent, Morris at 22.3
17	Q. Okay.	17	percent, and Benz at 19.1 percent; is that correct?
18	Some of them get very little support among	18	A. Yes.
19	African-American candidates (sic). Some of them get more	19	Q. And their levels of support are all
20	support. Hogshead has had a couple of elections where	20	statistically distinct from the remaining candidates in
21	she's where she's gotten relatively stronger support	21	terms of white votes, correct?
22	than others.	22	A. Yes.
23	Q. Okay. Let's look at Page 27 of your report,	23	Q. Okay. So using this decision rule, rule of
24	Paragraph 50, the first sentence. You write, "Let us now	24	thumb of statistical significance, we could say these
25	consider the highly polarized 2014 election in which three	25	three are white-preferred candidates, there are three
1	Page 234 seats were contested."	1	Page 236 white-preferred candidates, and of those three, two were
2	Did I read what you wrote accurately?	2	elected, correct?
3	A. Yes.	3	A. Yes.
4	Q. And you would agree then that the 2014	4	Q. And all three of these white-preferred
5	election was a highly polarized election?	5	candidates are white, correct?
6	A. I believe that polarization, racial	6	A. Correct.
7	polarization of elections, is not useful to think of as a	7	Q. Okay. I just want to look at some numbers
8	binary concept so that we can classify it as either	8	here now. Well, actually, I'm sorry, before we do that, I
9	polarized or not polarized. Some elections here are more	9	want to look at your report again. Let's look at Page 22,
10	polarized than others. It is just a it's a we can	10	Paragraph 39. It's the paragraph that continues from the
11	think of it as kind of a sliding scale. And clearly, when	11	previous sentence previous page, I mean. The first
12	I look at all these elections, I'm pointing out that 2014	12	full sentence reads, "The affair ended with a mutual
13	is the most polarized of any of those elections.	13	agreement not to release any details of the charges
14	Q. Okay. So it's highly polarized, that's how	14	against the outgoing superintendent, but the lack of
15	you would characterize 2014?	15	information angered many parents and the affair led to the
16	A. That's how I characterized it in the report,	16	creation of a slate of African-American candidates who
17	yes.	17	made race an explicit part of their campaign. This
18	Q. Okay. Now, the top vote-getters amongst black	18	racially polarizing event produced some unusually
19	voters in 2014 were Paulette-Thurman at 24.2 percent,	19	polarized election outcomes."
20	Johnson at about 21.5 percent, and Savala at about 21.4	20	Did I read what you wrote accurately?
20 21	percent; is that correct?	21	A. Yes.
20 21 22	percent; is that correct? A. Yes.	21 22	A. Yes.Q. The racially polarizing event that you are
20 21 22 23	percent; is that correct? A. Yes. Q. And they all received a level of support that	21 22 23	A. Yes. Q. The racially polarizing event that you are referring to, is that the separation of the school
20 21 22	percent; is that correct? A. Yes.	21 22	A. Yes.Q. The racially polarizing event that you are

	Page 237		Page 239
1	an explicit part of the campaign, or both?	1	consulted, and these were some that I could reconstruct
2	A. I was really referring to the resignation of	2	and find.
3	the superintendent.	3	Q. Can you remember any other media sources that
4	Q. Okay. And the slate of African-American	4	you considered in
5	candidates you're referring to who, in your view, made	5	A. I cannot.
6	race an explicit part of their campaign, that's	6	Q. Just let me finish the question.
7	Paulette-Thurman, Johnson and Savala, correct?	7	A. Sorry.
8	A. Yes.	8	Q. Can you remember any other media sources that
9	Q. And which of those three, if any, do you feel	9	you considered in arriving at the conclusion that the
10	made race an explicit part of the campaign?	10	slate of three candidates that we referred to earlier made
11	A. The slate of candidates had some some	11	race an explicit part of their campaign?
12	well, I guess the information I have on that is really	12	A. No.
13	comes from media reporting on the on the agenda of the	13	Q. It's just these three articles, correct?
14	of the slate. I don't believe I have personally	14	A. I don't recall which other articles I read. I
15	perused campaign materials to see whether they whether	15	spend a lot of time reading about current affairs in the
16	they mentioned race. I was getting this characterization	16	district, and when I was asked to reconstruct all of those
17	from media reports.	17	searches and remember what I had read, I certainly did not
18	Q. Okay.	18	give a full accounting.
19	A. So it could be inaccurate.	19	Q. Okay. Let's look at what's been marked as
20	Q. I would like to mark something as Rodden	20	Rodden Exhibit 17, one of the St. Louis Public Radio
21	Exhibit 14.	21	articles. This one is dated January of 2014. I want to
22	(Whereupon, Rodden Deposition Exhibit No. 14	22	turn to the third page here, and I'm counting both front
23	was marked for identification.)	23	and back. Can you look at the third paragraph from the
24	Q. This was provided to us by your counsel when	24	bottom that starts with, "Paulette-Thurman."
25	we asked for the materials on which you rely in various	25	A. Yes.
	Page 238		Page 240
1	parts of your report. Do you recognize this document?	1	Q. I'm just going to read this.
2	parts of your report. Do you recognize this document? A. Yes.	2	Q. I'm just going to read this. "Paulette-Thurman, a former principal in the district,
2 3	parts of your report. Do you recognize this document? A. Yes. Q. You created this document?	2 3	Q. I'm just going to read this. "Paulette-Thurman, a former principal in the district, noted that her experience gives her the background to help
2 3 4	parts of your report. Do you recognize this document? A. Yes. Q. You created this document? A. Yes.	2 3 4	Q. I'm just going to read this. "Paulette-Thurman, a former principal in the district, noted that her experience gives her the background to help the district. She said that during the furry over McCoy's
2 3 4 5	parts of your report. Do you recognize this document? A. Yes. Q. You created this document? A. Yes. Q. Okay. Now, according to this document, which	2 3 4 5	Q. I'm just going to read this. "Paulette-Thurman, a former principal in the district, noted that her experience gives her the background to help the district. She said that during the furry over McCoy's removal, people kept coming up to her saying that somebody
2 3 4 5 6	parts of your report. Do you recognize this document? A. Yes. Q. You created this document? A. Yes. Q. Okay. Now, according to this document, which I guess is titled Facts and Data contained sorry	2 3 4 5 6	Q. I'm just going to read this. "Paulette-Thurman, a former principal in the district, noted that her experience gives her the background to help the district. She said that during the furry over McCoy's removal, people kept coming up to her saying that somebody ought to do something about what was going on. Then she
2 3 4 5 6 7	parts of your report. Do you recognize this document? A. Yes. Q. You created this document? A. Yes. Q. Okay. Now, according to this document, which I guess is titled Facts and Data contained sorry Considered in Expert Report. For Paragraph 39 of your	2 3 4 5 6 7	Q. I'm just going to read this. "Paulette-Thurman, a former principal in the district, noted that her experience gives her the background to help the district. She said that during the furry over McCoy's removal, people kept coming up to her saying that somebody ought to do something about what was going on. Then she said, I said I am somebody and you are somebody, and they
2 3 4 5 6 7 8	parts of your report. Do you recognize this document? A. Yes. Q. You created this document? A. Yes. Q. Okay. Now, according to this document, which I guess is titled Facts and Data contained sorry Considered in Expert Report. For Paragraph 39 of your report, which we were quoting from earlier, there are	2 3 4 5 6 7 8	Q. I'm just going to read this. "Paulette-Thurman, a former principal in the district, noted that her experience gives her the background to help the district. She said that during the furry over McCoy's removal, people kept coming up to her saying that somebody ought to do something about what was going on. Then she said, I said I am somebody and you are somebody, and they could be the somebodies who could get things done. On the
2 3 4 5 6 7 8	parts of your report. Do you recognize this document? A. Yes. Q. You created this document? A. Yes. Q. Okay. Now, according to this document, which I guess is titled Facts and Data contained sorry Considered in Expert Report. For Paragraph 39 of your report, which we were quoting from earlier, there are three sources cited. Do you see that?	2 3 4 5 6 7 8	Q. I'm just going to read this. "Paulette-Thurman, a former principal in the district, noted that her experience gives her the background to help the district. She said that during the furry over McCoy's removal, people kept coming up to her saying that somebody ought to do something about what was going on. Then she said, I said I am somebody and you are somebody, and they could be the somebodies who could get things done. On the topic of black versus white, she urged people to use the
2 3 4 5 6 7 8 9	parts of your report. Do you recognize this document? A. Yes. Q. You created this document? A. Yes. Q. Okay. Now, according to this document, which I guess is titled Facts and Data contained sorry Considered in Expert Report. For Paragraph 39 of your report, which we were quoting from earlier, there are three sources cited. Do you see that? A. Yes.	2 3 4 5 6 7 8 9	Q. I'm just going to read this. "Paulette-Thurman, a former principal in the district, noted that her experience gives her the background to help the district. She said that during the furry over McCoy's removal, people kept coming up to her saying that somebody ought to do something about what was going on. Then she said, I said I am somebody and you are somebody, and they could be the somebodies who could get things done. On the topic of black versus white, she urged people to use the word race not as a noun, but as a verb, to make sure they
2 3 4 5 6 7 8 9 10	parts of your report. Do you recognize this document? A. Yes. Q. You created this document? A. Yes. Q. Okay. Now, according to this document, which I guess is titled Facts and Data contained sorry Considered in Expert Report. For Paragraph 39 of your report, which we were quoting from earlier, there are three sources cited. Do you see that? A. Yes. Q. One is a St. Louis Post-Dispatch article, and	2 3 4 5 6 7 8 9 10	Q. I'm just going to read this. "Paulette-Thurman, a former principal in the district, noted that her experience gives her the background to help the district. She said that during the furry over McCoy's removal, people kept coming up to her saying that somebody ought to do something about what was going on. Then she said, I said I am somebody and you are somebody, and they could be the somebodies who could get things done. On the topic of black versus white, she urged people to use the word race not as a noun, but as a verb, to make sure they move to the polls and voted in April."
2 3 4 5 6 7 8 9 10 11 12	parts of your report. Do you recognize this document? A. Yes. Q. You created this document? A. Yes. Q. Okay. Now, according to this document, which I guess is titled Facts and Data contained sorry Considered in Expert Report. For Paragraph 39 of your report, which we were quoting from earlier, there are three sources cited. Do you see that? A. Yes. Q. One is a St. Louis Post-Dispatch article, and two are St. Louis Public Radio articles?	2 3 4 5 6 7 8 9 10 11	Q. I'm just going to read this. "Paulette-Thurman, a former principal in the district, noted that her experience gives her the background to help the district. She said that during the furry over McCoy's removal, people kept coming up to her saying that somebody ought to do something about what was going on. Then she said, I said I am somebody and you are somebody, and they could be the somebodies who could get things done. On the topic of black versus white, she urged people to use the word race not as a noun, but as a verb, to make sure they move to the polls and voted in April." A. I recall the other media source I consulted
2 3 4 5 6 7 8 9 10 11 12 13	parts of your report. Do you recognize this document? A. Yes. Q. You created this document? A. Yes. Q. Okay. Now, according to this document, which I guess is titled Facts and Data contained sorry Considered in Expert Report. For Paragraph 39 of your report, which we were quoting from earlier, there are three sources cited. Do you see that? A. Yes. Q. One is a St. Louis Post-Dispatch article, and two are St. Louis Public Radio articles? A. Yes.	2 3 4 5 6 7 8 9 10 11 12 13	Q. I'm just going to read this. "Paulette-Thurman, a former principal in the district, noted that her experience gives her the background to help the district. She said that during the furry over McCoy's removal, people kept coming up to her saying that somebody ought to do something about what was going on. Then she said, I said I am somebody and you are somebody, and they could be the somebodies who could get things done. On the topic of black versus white, she urged people to use the word race not as a noun, but as a verb, to make sure they move to the polls and voted in April." A. I recall the other media source I consulted here. It was a blog post written by Dr. Kimball in which
2 3 4 5 6 7 8 9 10 11 12 13 14	parts of your report. Do you recognize this document? A. Yes. Q. You created this document? A. Yes. Q. Okay. Now, according to this document, which I guess is titled Facts and Data contained sorry Considered in Expert Report. For Paragraph 39 of your report, which we were quoting from earlier, there are three sources cited. Do you see that? A. Yes. Q. One is a St. Louis Post-Dispatch article, and two are St. Louis Public Radio articles? A. Yes. Q. Okay. I would like to mark these as Rodden	2 3 4 5 6 7 8 9 10 11 12 13	Q. I'm just going to read this. "Paulette-Thurman, a former principal in the district, noted that her experience gives her the background to help the district. She said that during the furry over McCoy's removal, people kept coming up to her saying that somebody ought to do something about what was going on. Then she said, I said I am somebody and you are somebody, and they could be the somebodies who could get things done. On the topic of black versus white, she urged people to use the word race not as a noun, but as a verb, to make sure they move to the polls and voted in April." A. I recall the other media source I consulted here. It was a blog post written by Dr. Kimball in which Dr. Kimball did some analysis of the 2014 election, and
2 3 4 5 6 7 8 9 10 11 12 13 14 15	parts of your report. Do you recognize this document? A. Yes. Q. You created this document? A. Yes. Q. Okay. Now, according to this document, which I guess is titled Facts and Data contained sorry Considered in Expert Report. For Paragraph 39 of your report, which we were quoting from earlier, there are three sources cited. Do you see that? A. Yes. Q. One is a St. Louis Post-Dispatch article, and two are St. Louis Public Radio articles? A. Yes. Q. Okay. I would like to mark these as Rodden Exhibits I guess we're at 15, 16 and 17.	2 3 4 5 6 7 8 9 10 11 12 13 14 15	Q. I'm just going to read this. "Paulette-Thurman, a former principal in the district, noted that her experience gives her the background to help the district. She said that during the furry over McCoy's removal, people kept coming up to her saying that somebody ought to do something about what was going on. Then she said, I said I am somebody and you are somebody, and they could be the somebodies who could get things done. On the topic of black versus white, she urged people to use the word race not as a noun, but as a verb, to make sure they move to the polls and voted in April." A. I recall the other media source I consulted here. It was a blog post written by Dr. Kimball in which Dr. Kimball did some analysis of the 2014 election, and Dr. Kimball, who is a prominent blogger on St. Louis
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	parts of your report. Do you recognize this document? A. Yes. Q. You created this document? A. Yes. Q. Okay. Now, according to this document, which I guess is titled Facts and Data contained sorry Considered in Expert Report. For Paragraph 39 of your report, which we were quoting from earlier, there are three sources cited. Do you see that? A. Yes. Q. One is a St. Louis Post-Dispatch article, and two are St. Louis Public Radio articles? A. Yes. Q. Okay. I would like to mark these as Rodden Exhibits I guess we're at 15, 16 and 17. (Whereupon, Rodden Deposition Exhibits 15, 16,	2 3 4 5 6 7 8 9 10 11 12 13	Q. I'm just going to read this. "Paulette-Thurman, a former principal in the district, noted that her experience gives her the background to help the district. She said that during the furry over McCoy's removal, people kept coming up to her saying that somebody ought to do something about what was going on. Then she said, I said I am somebody and you are somebody, and they could be the somebodies who could get things done. On the topic of black versus white, she urged people to use the word race not as a noun, but as a verb, to make sure they move to the polls and voted in April." A. I recall the other media source I consulted here. It was a blog post written by Dr. Kimball in which Dr. Kimball did some analysis of the 2014 election, and Dr. Kimball, who is a prominent blogger on St. Louis politics, referred to the 2014 election as having a slate
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	parts of your report. Do you recognize this document? A. Yes. Q. You created this document? A. Yes. Q. Okay. Now, according to this document, which I guess is titled Facts and Data contained sorry Considered in Expert Report. For Paragraph 39 of your report, which we were quoting from earlier, there are three sources cited. Do you see that? A. Yes. Q. One is a St. Louis Post-Dispatch article, and two are St. Louis Public Radio articles? A. Yes. Q. Okay. I would like to mark these as Rodden Exhibits I guess we're at 15, 16 and 17. (Whereupon, Rodden Deposition Exhibits 15, 16, and 17 were marked for identification.)	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	Q. I'm just going to read this. "Paulette-Thurman, a former principal in the district, noted that her experience gives her the background to help the district. She said that during the furry over McCoy's removal, people kept coming up to her saying that somebody ought to do something about what was going on. Then she said, I said I am somebody and you are somebody, and they could be the somebodies who could get things done. On the topic of black versus white, she urged people to use the word race not as a noun, but as a verb, to make sure they move to the polls and voted in April." A. I recall the other media source I consulted here. It was a blog post written by Dr. Kimball in which Dr. Kimball did some analysis of the 2014 election, and Dr. Kimball, who is a prominent blogger on St. Louis politics, referred to the 2014 election as having a slate of candidates who were African-American and who were
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	parts of your report. Do you recognize this document? A. Yes. Q. You created this document? A. Yes. Q. Okay. Now, according to this document, which I guess is titled Facts and Data contained sorry Considered in Expert Report. For Paragraph 39 of your report, which we were quoting from earlier, there are three sources cited. Do you see that? A. Yes. Q. One is a St. Louis Post-Dispatch article, and two are St. Louis Public Radio articles? A. Yes. Q. Okay. I would like to mark these as Rodden Exhibits I guess we're at 15, 16 and 17. (Whereupon, Rodden Deposition Exhibits 15, 16, and 17 were marked for identification.) Q. So are those the sources that you cite for the	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	Q. I'm just going to read this. "Paulette-Thurman, a former principal in the district, noted that her experience gives her the background to help the district. She said that during the furry over McCoy's removal, people kept coming up to her saying that somebody ought to do something about what was going on. Then she said, I said I am somebody and you are somebody, and they could be the somebodies who could get things done. On the topic of black versus white, she urged people to use the word race not as a noun, but as a verb, to make sure they move to the polls and voted in April." A. I recall the other media source I consulted here. It was a blog post written by Dr. Kimball in which Dr. Kimball did some analysis of the 2014 election, and Dr. Kimball, who is a prominent blogger on St. Louis politics, referred to the 2014 election as having a slate
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	parts of your report. Do you recognize this document? A. Yes. Q. You created this document? A. Yes. Q. Okay. Now, according to this document, which I guess is titled Facts and Data contained sorry Considered in Expert Report. For Paragraph 39 of your report, which we were quoting from earlier, there are three sources cited. Do you see that? A. Yes. Q. One is a St. Louis Post-Dispatch article, and two are St. Louis Public Radio articles? A. Yes. Q. Okay. I would like to mark these as Rodden Exhibits I guess we're at 15, 16 and 17. (Whereupon, Rodden Deposition Exhibits 15, 16, and 17 were marked for identification.) Q. So are those the sources that you cite for the proposition that the three candidates made race an	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	Q. I'm just going to read this. "Paulette-Thurman, a former principal in the district, noted that her experience gives her the background to help the district. She said that during the furry over McCoy's removal, people kept coming up to her saying that somebody ought to do something about what was going on. Then she said, I said I am somebody and you are somebody, and they could be the somebodies who could get things done. On the topic of black versus white, she urged people to use the word race not as a noun, but as a verb, to make sure they move to the polls and voted in April." A. I recall the other media source I consulted here. It was a blog post written by Dr. Kimball in which Dr. Kimball did some analysis of the 2014 election, and Dr. Kimball, who is a prominent blogger on St. Louis politics, referred to the 2014 election as having a slate of candidates who were African-American and who were running on a reform-oriented slate related to race. So
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	parts of your report. Do you recognize this document? A. Yes. Q. You created this document? A. Yes. Q. Okay. Now, according to this document, which I guess is titled Facts and Data contained sorry Considered in Expert Report. For Paragraph 39 of your report, which we were quoting from earlier, there are three sources cited. Do you see that? A. Yes. Q. One is a St. Louis Post-Dispatch article, and two are St. Louis Public Radio articles? A. Yes. Q. Okay. I would like to mark these as Rodden Exhibits I guess we're at 15, 16 and 17. (Whereupon, Rodden Deposition Exhibits 15, 16, and 17 were marked for identification.) Q. So are those the sources that you cite for the	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	Q. I'm just going to read this. "Paulette-Thurman, a former principal in the district, noted that her experience gives her the background to help the district. She said that during the furry over McCoy's removal, people kept coming up to her saying that somebody ought to do something about what was going on. Then she said, I said I am somebody and you are somebody, and they could be the somebodies who could get things done. On the topic of black versus white, she urged people to use the word race not as a noun, but as a verb, to make sure they move to the polls and voted in April." A. I recall the other media source I consulted here. It was a blog post written by Dr. Kimball in which Dr. Kimball did some analysis of the 2014 election, and Dr. Kimball, who is a prominent blogger on St. Louis politics, referred to the 2014 election as having a slate of candidates who were African-American and who were running on a reform-oriented slate related to race. So it's possible I misread that article, but I believe it was
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	parts of your report. Do you recognize this document? A. Yes. Q. You created this document? A. Yes. Q. Okay. Now, according to this document, which I guess is titled Facts and Data contained sorry Considered in Expert Report. For Paragraph 39 of your report, which we were quoting from earlier, there are three sources cited. Do you see that? A. Yes. Q. One is a St. Louis Post-Dispatch article, and two are St. Louis Public Radio articles? A. Yes. Q. Okay. I would like to mark these as Rodden Exhibits I guess we're at 15, 16 and 17. (Whereupon, Rodden Deposition Exhibits 15, 16, and 17 were marked for identification.) Q. So are those the sources that you cite for the proposition that the three candidates made race an explicit part of their campaign?	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	Q. I'm just going to read this. "Paulette-Thurman, a former principal in the district, noted that her experience gives her the background to help the district. She said that during the furry over McCoy's removal, people kept coming up to her saying that somebody ought to do something about what was going on. Then she said, I said I am somebody and you are somebody, and they could be the somebodies who could get things done. On the topic of black versus white, she urged people to use the word race not as a noun, but as a verb, to make sure they move to the polls and voted in April." A. I recall the other media source I consulted here. It was a blog post written by Dr. Kimball in which Dr. Kimball did some analysis of the 2014 election, and Dr. Kimball, who is a prominent blogger on St. Louis politics, referred to the 2014 election as having a slate of candidates who were African-American and who were running on a reform-oriented slate related to race. So it's possible I misread that article, but I believe it was entered into evidence, it might be here. I've read this
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	parts of your report. Do you recognize this document? A. Yes. Q. You created this document? A. Yes. Q. Okay. Now, according to this document, which I guess is titled Facts and Data contained sorry Considered in Expert Report. For Paragraph 39 of your report, which we were quoting from earlier, there are three sources cited. Do you see that? A. Yes. Q. One is a St. Louis Post-Dispatch article, and two are St. Louis Public Radio articles? A. Yes. Q. Okay. I would like to mark these as Rodden Exhibits I guess we're at 15, 16 and 17. (Whereupon, Rodden Deposition Exhibits 15, 16, and 17 were marked for identification.) Q. So are those the sources that you cite for the proposition that the three candidates made race an explicit part of their campaign? A. These are the ones I made reference to in the	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	Q. I'm just going to read this. "Paulette-Thurman, a former principal in the district, noted that her experience gives her the background to help the district. She said that during the furry over McCoy's removal, people kept coming up to her saying that somebody ought to do something about what was going on. Then she said, I said I am somebody and you are somebody, and they could be the somebodies who could get things done. On the topic of black versus white, she urged people to use the word race not as a noun, but as a verb, to make sure they move to the polls and voted in April." A. I recall the other media source I consulted here. It was a blog post written by Dr. Kimball in which Dr. Kimball did some analysis of the 2014 election, and Dr. Kimball, who is a prominent blogger on St. Louis politics, referred to the 2014 election as having a slate of candidates who were African-American and who were running on a reform-oriented slate related to race. So it's possible I misread that article, but I believe it was entered into evidence, it might be here. I've read this article not very long ago.
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	parts of your report. Do you recognize this document? A. Yes. Q. You created this document? A. Yes. Q. Okay. Now, according to this document, which I guess is titled Facts and Data contained sorry Considered in Expert Report. For Paragraph 39 of your report, which we were quoting from earlier, there are three sources cited. Do you see that? A. Yes. Q. One is a St. Louis Post-Dispatch article, and two are St. Louis Public Radio articles? A. Yes. Q. Okay. I would like to mark these as Rodden Exhibits I guess we're at 15, 16 and 17. (Whereupon, Rodden Deposition Exhibits 15, 16, and 17 were marked for identification.) Q. So are those the sources that you cite for the proposition that the three candidates made race an explicit part of their campaign? A. These are the ones I made reference to in the document Facts and Data Considered. I said what I said	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	Q. I'm just going to read this. "Paulette-Thurman, a former principal in the district, noted that her experience gives her the background to help the district. She said that during the furry over McCoy's removal, people kept coming up to her saying that somebody ought to do something about what was going on. Then she said, I said I am somebody and you are somebody, and they could be the somebodies who could get things done. On the topic of black versus white, she urged people to use the word race not as a noun, but as a verb, to make sure they move to the polls and voted in April." A. I recall the other media source I consulted here. It was a blog post written by Dr. Kimball in which Dr. Kimball did some analysis of the 2014 election, and Dr. Kimball, who is a prominent blogger on St. Louis politics, referred to the 2014 election as having a slate of candidates who were African-American and who were running on a reform-oriented slate related to race. So it's possible I misread that article, but I believe it was entered into evidence, it might be here. I've read this article not very long ago. Q. Well, Dr. Rodden, I'm asking about this
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	parts of your report. Do you recognize this document? A. Yes. Q. You created this document? A. Yes. Q. Okay. Now, according to this document, which I guess is titled Facts and Data contained sorry Considered in Expert Report. For Paragraph 39 of your report, which we were quoting from earlier, there are three sources cited. Do you see that? A. Yes. Q. One is a St. Louis Post-Dispatch article, and two are St. Louis Public Radio articles? A. Yes. Q. Okay. I would like to mark these as Rodden Exhibits I guess we're at 15, 16 and 17. (Whereupon, Rodden Deposition Exhibits 15, 16, and 17 were marked for identification.) Q. So are those the sources that you cite for the proposition that the three candidates made race an explicit part of their campaign? A. These are the ones I made reference to in the document Facts and Data Considered. I said what I said is I did read some of the media coverage including, and	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	Q. I'm just going to read this. "Paulette-Thurman, a former principal in the district, noted that her experience gives her the background to help the district. She said that during the furry over McCoy's removal, people kept coming up to her saying that somebody ought to do something about what was going on. Then she said, I said I am somebody and you are somebody, and they could be the somebodies who could get things done. On the topic of black versus white, she urged people to use the word race not as a noun, but as a verb, to make sure they move to the polls and voted in April." A. I recall the other media source I consulted here. It was a blog post written by Dr. Kimball in which Dr. Kimball did some analysis of the 2014 election, and Dr. Kimball, who is a prominent blogger on St. Louis politics, referred to the 2014 election as having a slate of candidates who were African-American and who were running on a reform-oriented slate related to race. So it's possible I misread that article, but I believe it was entered into evidence, it might be here. I've read this article not very long ago. Q. Well, Dr. Rodden, I'm asking about this article right now.

	Page 241	Page 243
1	recall	1 African-Americans.
2	Q. Okay.	2 A. The African-American turnout was higher in the
3	A any other media sources, and indeed I	3 previous election. It was not that much higher in 2014
4	consulted another media source that probably cannot be	4 than 2013, but it was this was an important moment that
5	accessed right now, but it could be rather easily after	5 people paid a lot of attention to.
6	the deposition.	6 Q. The superintendent controversy, that generated
7	Q. Okay. But based on this media source which	7 a level of interest in this election amongst
8	you cite in your facts and data considered by you in your	8 African-American voters; you would agree with that, right?
9	report, did it sound like Dr. Paulette-Thurman was making	9 A. That is my impression, but I was not I was
10	race an explicit part of her campaign?	10 not there in 2014, but this certainly is the impression I
11	A. No, not in that article. No, not in that	11 get from, again, from communications and from media
12	quote.	12 reports.
13	Q. Can we look at Page 4, the next page, and the	13 Q. And you would agree that's an unusually high
14	last paragraph here going through to the next page.	14 level of interest amongst African-American voters in the
15	"Long, the spokesman for the Citizens Task Force,	15 2014 election as a result of the superintendent
16	emphasized that though all three candidates the group	16 controversy, correct?
17	chose to run for the board are black, does not look at the	17 A. What I testified was that turnout I can
18	issue as one of race. 'We're running on transparency and	18 only testify to the things that I've analyzed in this
19	things like that, he said. It's not Dr. McCoy as a	19 context. I testified that the turnout was somewhat higher
20	personality. It's how Dr. McCoy addressed those issues	20 than 2013, and I have testified that this was a that
21	that we stand for. It could have been anyone else. A lot	21 the correlation between precinct level race of voting age
22	of people try to make it a race issue. It's not a race	22 population and precinct level candidate votes for
23	issue. Had it been switched around with an all-black	23 African-American candidates, that these things that
24	board and a white superintendent, it could have been the	24 this increased in the 2014 election. That is what I know
25	same."	25 was unusual about it; that it was by that by that
	Page 242	Page 244
1	Page 242	Page 244
1	Does it sound like the spokesman for the task	characterization of polarization, it was a more polarized
2	Does it sound like the spokesman for the task force that was behind the slate of candidates that you	1 characterization of polarization, it was a more polarized 2 election than others.
2	Does it sound like the spokesman for the task force that was behind the slate of candidates that you referred to earlier, does it sound like he was making race	1 characterization of polarization, it was a more polarized 2 election than others. 3 Q. Okay. Let's look back at the worksheet that
2 3 4	Does it sound like the spokesman for the task force that was behind the slate of candidates that you referred to earlier, does it sound like he was making race an explicit part of the campaign?	1 characterization of polarization, it was a more polarized 2 election than others. 3 Q. Okay. Let's look back at the worksheet that 4 you filled out, Exhibit 13. Now, again, I know that you
2 3 4 5	Does it sound like the spokesman for the task force that was behind the slate of candidates that you referred to earlier, does it sound like he was making race an explicit part of the campaign? A. No.	characterization of polarization, it was a more polarized election than others. Q. Okay. Let's look back at the worksheet that you filled out, Exhibit 13. Now, again, I know that you object to the decision rule that we used here, but we
2 3 4 5 6	Does it sound like the spokesman for the task force that was behind the slate of candidates that you referred to earlier, does it sound like he was making race an explicit part of the campaign? A. No. Q. Now, back to the report, Page 27, Paragraph	characterization of polarization, it was a more polarized election than others. Q. Okay. Let's look back at the worksheet that you filled out, Exhibit 13. Now, again, I know that you object to the decision rule that we used here, but we agree that that decision rule is what we used here, right,
2 3 4 5 6 7	Does it sound like the spokesman for the task force that was behind the slate of candidates that you referred to earlier, does it sound like he was making race an explicit part of the campaign? A. No. Q. Now, back to the report, Page 27, Paragraph 50.	characterization of polarization, it was a more polarized election than others. Q. Okay. Let's look back at the worksheet that you filled out, Exhibit 13. Now, again, I know that you object to the decision rule that we used here, but we agree that that decision rule is what we used here, right, the statistical significance decision rule?
2 3 4 5 6 7 8	Does it sound like the spokesman for the task force that was behind the slate of candidates that you referred to earlier, does it sound like he was making race an explicit part of the campaign? A. No. Q. Now, back to the report, Page 27, Paragraph 50. A. My report?	characterization of polarization, it was a more polarized election than others. Q. Okay. Let's look back at the worksheet that you filled out, Exhibit 13. Now, again, I know that you object to the decision rule that we used here, but we agree that that decision rule is what we used here, right, the statistical significance decision rule? A. The rule of thumb related to confidence
2 3 4 5 6 7 8	Does it sound like the spokesman for the task force that was behind the slate of candidates that you referred to earlier, does it sound like he was making race an explicit part of the campaign? A. No. Q. Now, back to the report, Page 27, Paragraph 50. A. My report? Q. Your report, Page 27, Paragraph 50. Three	characterization of polarization, it was a more polarized election than others. Q. Okay. Let's look back at the worksheet that you filled out, Exhibit 13. Now, again, I know that you object to the decision rule that we used here, but we agree that that decision rule is what we used here, right, the statistical significance decision rule? A. The rule of thumb related to confidence intervals.
2 3 4 5 6 7 8 9	Does it sound like the spokesman for the task force that was behind the slate of candidates that you referred to earlier, does it sound like he was making race an explicit part of the campaign? A. No. Q. Now, back to the report, Page 27, Paragraph 50. A. My report? Q. Your report, Page 27, Paragraph 50. Three lines down there is a sentence that begins, "In the wake	characterization of polarization, it was a more polarized election than others. Q. Okay. Let's look back at the worksheet that you filled out, Exhibit 13. Now, again, I know that you object to the decision rule that we used here, but we agree that that decision rule is what we used here, right, the statistical significance decision rule? A. The rule of thumb related to confidence intervals. Q. Okay.
2 3 4 5 6 7 8 9 10	Does it sound like the spokesman for the task force that was behind the slate of candidates that you referred to earlier, does it sound like he was making race an explicit part of the campaign? A. No. Q. Now, back to the report, Page 27, Paragraph 50. A. My report? Q. Your report, Page 27, Paragraph 50. Three lines down there is a sentence that begins, "In the wake of the controversial resignation of the superintendent, an	characterization of polarization, it was a more polarized election than others. Q. Okay. Let's look back at the worksheet that you filled out, Exhibit 13. Now, again, I know that you object to the decision rule that we used here, but we agree that that decision rule is what we used here, right, the statistical significance decision rule? A. The rule of thumb related to confidence intervals. Q. Okay. A. Yes.
2 3 4 5 6 7 8 9 10 11	Does it sound like the spokesman for the task force that was behind the slate of candidates that you referred to earlier, does it sound like he was making race an explicit part of the campaign? A. No. Q. Now, back to the report, Page 27, Paragraph 50. A. My report? Q. Your report, Page 27, Paragraph 50. Three lines down there is a sentence that begins, "In the wake of the controversial resignation of the superintendent, an unprecedented five African-American challengers filed for	characterization of polarization, it was a more polarized election than others. Q. Okay. Let's look back at the worksheet that you filled out, Exhibit 13. Now, again, I know that you object to the decision rule that we used here, but we agree that that decision rule is what we used here, right, the statistical significance decision rule? A. The rule of thumb related to confidence intervals. Q. Okay. A. Yes. Q. We agree with that, right, Dr. Rodden?
2 3 4 5 6 7 8 9 10 11 12 13	Does it sound like the spokesman for the task force that was behind the slate of candidates that you referred to earlier, does it sound like he was making race an explicit part of the campaign? A. No. Q. Now, back to the report, Page 27, Paragraph 50. A. My report? Q. Your report, Page 27, Paragraph 50. Three lines down there is a sentence that begins, "In the wake of the controversial resignation of the superintendent, an unprecedented five African-American challengers filed for the election."	1 characterization of polarization, it was a more polarized 2 election than others. 3 Q. Okay. Let's look back at the worksheet that 4 you filled out, Exhibit 13. Now, again, I know that you 5 object to the decision rule that we used here, but we 6 agree that that decision rule is what we used here, right, 7 the statistical significance decision rule? 8 A. The rule of thumb related to confidence 9 intervals. 10 Q. Okay. 11 A. Yes. 12 Q. We agree with that, right, Dr. Rodden? 13 A. That we used that and wrote down the numbers
2 3 4 5 6 7 8 9 10 11 12 13 14	Does it sound like the spokesman for the task force that was behind the slate of candidates that you referred to earlier, does it sound like he was making race an explicit part of the campaign? A. No. Q. Now, back to the report, Page 27, Paragraph 50. A. My report? Q. Your report, Page 27, Paragraph 50. Three lines down there is a sentence that begins, "In the wake of the controversial resignation of the superintendent, an unprecedented five African-American challengers filed for	1 characterization of polarization, it was a more polarized 2 election than others. 3 Q. Okay. Let's look back at the worksheet that 4 you filled out, Exhibit 13. Now, again, I know that you 5 object to the decision rule that we used here, but we 6 agree that that decision rule is what we used here, right, 7 the statistical significance decision rule? 8 A. The rule of thumb related to confidence 9 intervals. 10 Q. Okay. 11 A. Yes. 12 Q. We agree with that, right, Dr. Rodden? 13 A. That we used that and wrote down the numbers 14 that came from that, yes.
2 3 4 5 6 7 8 9 10 11 12 13	Does it sound like the spokesman for the task force that was behind the slate of candidates that you referred to earlier, does it sound like he was making race an explicit part of the campaign? A. No. Q. Now, back to the report, Page 27, Paragraph 50. A. My report? Q. Your report, Page 27, Paragraph 50. Three lines down there is a sentence that begins, "In the wake of the controversial resignation of the superintendent, an unprecedented five African-American challengers filed for the election." So you would agree there was a high level of	1 characterization of polarization, it was a more polarized 2 election than others. 3 Q. Okay. Let's look back at the worksheet that 4 you filled out, Exhibit 13. Now, again, I know that you 5 object to the decision rule that we used here, but we 6 agree that that decision rule is what we used here, right, 7 the statistical significance decision rule? 8 A. The rule of thumb related to confidence 9 intervals. 10 Q. Okay. 11 A. Yes. 12 Q. We agree with that, right, Dr. Rodden? 13 A. That we used that and wrote down the numbers 14 that came from that, yes.
2 3 4 5 6 7 8 9 10 11 12 13 14	Does it sound like the spokesman for the task force that was behind the slate of candidates that you referred to earlier, does it sound like he was making race an explicit part of the campaign? A. No. Q. Now, back to the report, Page 27, Paragraph 50. A. My report? Q. Your report, Page 27, Paragraph 50. Three lines down there is a sentence that begins, "In the wake of the controversial resignation of the superintendent, an unprecedented five African-American challengers filed for the election." So you would agree there was a high level of interest among African-Americans in the	characterization of polarization, it was a more polarized election than others. Q. Okay. Let's look back at the worksheet that you filled out, Exhibit 13. Now, again, I know that you object to the decision rule that we used here, but we agree that that decision rule is what we used here, right, the statistical significance decision rule? A. The rule of thumb related to confidence intervals. Q. Okay. A. Yes. Q. We agree with that, right, Dr. Rodden? A. That we used that and wrote down the numbers that came from that, yes. Q. Yes. You don't have any reason to think that
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	Does it sound like the spokesman for the task force that was behind the slate of candidates that you referred to earlier, does it sound like he was making race an explicit part of the campaign? A. No. Q. Now, back to the report, Page 27, Paragraph 50. A. My report? Q. Your report, Page 27, Paragraph 50. Three lines down there is a sentence that begins, "In the wake of the controversial resignation of the superintendent, an unprecedented five African-American challengers filed for the election." So you would agree there was a high level of interest among African-Americans in the Ferguson-Florissant school district elections in 2014,	characterization of polarization, it was a more polarized election than others. Q. Okay. Let's look back at the worksheet that you filled out, Exhibit 13. Now, again, I know that you object to the decision rule that we used here, but we agree that that decision rule is what we used here, right, the statistical significance decision rule? A. The rule of thumb related to confidence intervals. Q. Okay. A. Yes. Q. We agree with that, right, Dr. Rodden? A. That we used that and wrote down the numbers that came from that, yes. Q. Yes. You don't have any reason to think that we applied that decision rule inaccurately when you filled
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	Does it sound like the spokesman for the task force that was behind the slate of candidates that you referred to earlier, does it sound like he was making race an explicit part of the campaign? A. No. Q. Now, back to the report, Page 27, Paragraph 50. A. My report? Q. Your report, Page 27, Paragraph 50. Three lines down there is a sentence that begins, "In the wake of the controversial resignation of the superintendent, an unprecedented five African-American challengers filed for the election." So you would agree there was a high level of interest among African-Americans in the Ferguson-Florissant school district elections in 2014, correct?	1 characterization of polarization, it was a more polarized 2 election than others. 3 Q. Okay. Let's look back at the worksheet that 4 you filled out, Exhibit 13. Now, again, I know that you 5 object to the decision rule that we used here, but we 6 agree that that decision rule is what we used here, right, 7 the statistical significance decision rule? 8 A. The rule of thumb related to confidence 9 intervals. 10 Q. Okay. 11 A. Yes. 12 Q. We agree with that, right, Dr. Rodden? 13 A. That we used that and wrote down the numbers 14 that came from that, yes. 15 Q. Yes. You don't have any reason to think that 16 we applied that decision rule inaccurately when you filled 17 out this sheet, do you, Dr. Rodden?
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	Does it sound like the spokesman for the task force that was behind the slate of candidates that you referred to earlier, does it sound like he was making race an explicit part of the campaign? A. No. Q. Now, back to the report, Page 27, Paragraph 50. A. My report? Q. Your report, Page 27, Paragraph 50. Three lines down there is a sentence that begins, "In the wake of the controversial resignation of the superintendent, an unprecedented five African-American challengers filed for the election." So you would agree there was a high level of interest among African-Americans in the Ferguson-Florissant school district elections in 2014, correct? A. I testified earlier this morning that the	characterization of polarization, it was a more polarized election than others. Q. Okay. Let's look back at the worksheet that you filled out, Exhibit 13. Now, again, I know that you object to the decision rule that we used here, but we agree that that decision rule is what we used here, right, the statistical significance decision rule? A. The rule of thumb related to confidence intervals. Q. Okay. A. Yes. Q. We agree with that, right, Dr. Rodden? A. That we used that and wrote down the numbers that came from that, yes. Q. Yes. You don't have any reason to think that we applied that decision rule inaccurately when you filled out this sheet, do you, Dr. Rodden? A. That's right.
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	Does it sound like the spokesman for the task force that was behind the slate of candidates that you referred to earlier, does it sound like he was making race an explicit part of the campaign? A. No. Q. Now, back to the report, Page 27, Paragraph 50. A. My report? Q. Your report, Page 27, Paragraph 50. Three lines down there is a sentence that begins, "In the wake of the controversial resignation of the superintendent, an unprecedented five African-American challengers filed for the election." So you would agree there was a high level of interest among African-Americans in the Ferguson-Florissant school district elections in 2014, correct? A. I testified earlier this morning that the turnout estimated turnout among African-Americans	characterization of polarization, it was a more polarized election than others. Q. Okay. Let's look back at the worksheet that you filled out, Exhibit 13. Now, again, I know that you object to the decision rule that we used here, but we agree that that decision rule is what we used here, right, the statistical significance decision rule? A. The rule of thumb related to confidence intervals. Q. Okay. A. Yes. Q. We agree with that, right, Dr. Rodden? A. That we used that and wrote down the numbers that came from that, yes. Q. Yes. You don't have any reason to think that we applied that decision rule inaccurately when you filled out this sheet, do you, Dr. Rodden? A. That's right. Q. And again, I know you disagree with the
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	Does it sound like the spokesman for the task force that was behind the slate of candidates that you referred to earlier, does it sound like he was making race an explicit part of the campaign? A. No. Q. Now, back to the report, Page 27, Paragraph 50. A. My report? Q. Your report, Page 27, Paragraph 50. Three lines down there is a sentence that begins, "In the wake of the controversial resignation of the superintendent, an unprecedented five African-American challengers filed for the election." So you would agree there was a high level of interest among African-Americans in the Ferguson-Florissant school district elections in 2014, correct? A. I testified earlier this morning that the turnout estimated turnout among African-Americans ticked up from the previous election.	characterization of polarization, it was a more polarized election than others. Q. Okay. Let's look back at the worksheet that you filled out, Exhibit 13. Now, again, I know that you object to the decision rule that we used here, but we agree that that decision rule is what we used here, right, the statistical significance decision rule? A. The rule of thumb related to confidence intervals. Q. Okay. A. Yes. Q. We agree with that, right, Dr. Rodden? A. That we used that and wrote down the numbers that came from that, yes. Q. Yes. You don't have any reason to think that we applied that decision rule inaccurately when you filled out this sheet, do you, Dr. Rodden? A. That's right. Q. And again, I know you disagree with the substance of the decision rule, but just looking at what
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	Does it sound like the spokesman for the task force that was behind the slate of candidates that you referred to earlier, does it sound like he was making race an explicit part of the campaign? A. No. Q. Now, back to the report, Page 27, Paragraph 50. A. My report? Q. Your report, Page 27, Paragraph 50. Three lines down there is a sentence that begins, "In the wake of the controversial resignation of the superintendent, an unprecedented five African-American challengers filed for the election." So you would agree there was a high level of interest among African-Americans in the Ferguson-Florissant school district elections in 2014, correct? A. I testified earlier this morning that the turnout estimated turnout among African-Americans ticked up from the previous election. Q. And that's a special circumstance of this	characterization of polarization, it was a more polarized election than others. Q. Okay. Let's look back at the worksheet that you filled out, Exhibit 13. Now, again, I know that you object to the decision rule that we used here, but we agree that that decision rule is what we used here, right, the statistical significance decision rule? A. The rule of thumb related to confidence intervals. Q. Okay. A. Yes. Q. We agree with that, right, Dr. Rodden? A. That we used that and wrote down the numbers that came from that, yes. Q. Yes. You don't have any reason to think that we applied that decision rule inaccurately when you filled out this sheet, do you, Dr. Rodden? A. That's right. Q. And again, I know you disagree with the substance of the decision rule, but just looking at what kinds of numbers that decision rule gives us, if you use
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	Does it sound like the spokesman for the task force that was behind the slate of candidates that you referred to earlier, does it sound like he was making race an explicit part of the campaign? A. No. Q. Now, back to the report, Page 27, Paragraph 50. A. My report? Q. Your report, Page 27, Paragraph 50. Three lines down there is a sentence that begins, "In the wake of the controversial resignation of the superintendent, an unprecedented five African-American challengers filed for the election." So you would agree there was a high level of interest among African-Americans in the Ferguson-Florissant school district elections in 2014, correct? A. I testified earlier this morning that the turnout estimated turnout among African-Americans ticked up from the previous election. Q. And that's a special circumstance of this election that's not present in other elections in the	characterization of polarization, it was a more polarized election than others. Q. Okay. Let's look back at the worksheet that you filled out, Exhibit 13. Now, again, I know that you object to the decision rule that we used here, but we agree that that decision rule is what we used here, right, the statistical significance decision rule? A. The rule of thumb related to confidence intervals. Q. Okay. A. Yes. Q. We agree with that, right, Dr. Rodden? A. That we used that and wrote down the numbers that came from that, yes. Q. Yes. You don't have any reason to think that we applied that decision rule inaccurately when you filled out this sheet, do you, Dr. Rodden? A. That's right. Q. And again, I know you disagree with the substance of the decision rule, but just looking at what kinds of numbers that decision rule gives us, if you use that decision rule, right, how many African-American
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	Does it sound like the spokesman for the task force that was behind the slate of candidates that you referred to earlier, does it sound like he was making race an explicit part of the campaign? A. No. Q. Now, back to the report, Page 27, Paragraph 50. A. My report? Q. Your report, Page 27, Paragraph 50. Three lines down there is a sentence that begins, "In the wake of the controversial resignation of the superintendent, an unprecedented five African-American challengers filed for the election." So you would agree there was a high level of interest among African-Americans in the Ferguson-Florissant school district elections in 2014, correct? A. I testified earlier this morning that the turnout estimated turnout among African-Americans ticked up from the previous election. Q. And that's a special circumstance of this election that's not present in other elections in the Ferguson-Florissant school district?	characterization of polarization, it was a more polarized election than others. Q. Okay. Let's look back at the worksheet that you filled out, Exhibit 13. Now, again, I know that you object to the decision rule that we used here, but we agree that that decision rule is what we used here, right, the statistical significance decision rule? A. The rule of thumb related to confidence intervals. Q. Okay. A. Yes. Q. We agree with that, right, Dr. Rodden? A. That we used that and wrote down the numbers that came from that, yes. Q. Yes. You don't have any reason to think that we applied that decision rule inaccurately when you filled out this sheet, do you, Dr. Rodden? A. That's right. Q. And again, I know you disagree with the substance of the decision rule, but just looking at what kinds of numbers that decision rule gives us, if you use that decision rule, right, how many African-American preferred candidates were there in the Ferguson-Florissant

	Page 245		Page 247
1	Q. And applying that decision rule, how many of	1	So two preferred candidates, thank you.
2	those 19 black-preferred candidates were successful?	2	Q. Right.
3	A. Seven.	3	A. 19.
4	Q. So fewer than half, correct, Dr. Rodden?	4	Q. You are right. And how many of those
5	A. Right.	5	white-preferred candidates were successful?
6	Q. And what kind of success rate is that, seven	6	A. 18.
7	divided by 19?	7	Q. Okay. So using this decision rule, the
8	A. 37 percent.	8	white-preferred candidates are almost always successful,
9	Q. Okay. And of those 19 black-preferred	9	correct?
10	candidates, I see Knowles and Schroeder in 2009 as the	10	A. Correct.
11	only two of those 19 candidates who were white; is that	11	Q. And using this decision rule, if we look at
12	correct?	12	the 19 white-preferred candidates, there is not a single
13	A. Yes.	13	African-American there, correct?
14	Q. And 2009, correct me if I'm wrong, but that's	14	A. Yes, because we've applied a decision rule
15	the election where there were no black candidates running	15	that, for instance, causes us to causes us not to pay
16	for office, correct?	16	attention you know, we're not the fact that, for
17	A. Correct.	17	instance, whites in 2015 split their votes between two
18	Q. Okay.	18	black candidates, Graves and Hines, and because Graves and
19	A. Yes. We have developed an approach here which	19	Hines were too close together in this approach, we were
20	has led us to to exclude any potential any potential	20	not able to identify Graves as a white-preferred
21	candidates that are not minorities.	21	candidate. So we have applied a decision rule that does
22	Q. Well, if a white-preferred candidate had	22	lead us to that conclusion.
23	received sorry. Let me start that gain. If a white	23	Q. Okay. Well, we'll look at what we get from
24	candidate had received support from black voters at a	24	your decision rules in a minute, Dr. Rodden, but let's
25	statistically significantly higher rate in comparison to	25	just stick with this one and we'll get to yours in a
	Page 246		Page 248
1	other candidates such that we knew for a fact that that	1	minute. Is that okay?
1 2	other candidates such that we knew for a fact that that candidate, that white candidate, was the second or third	1 2	minute. Is that okay? A. Yeah. I wasn't yeah, sure.
		1	-
2	candidate, that white candidate, was the second or third	2	A. Yeah. I wasn't yeah, sure.
2	candidate, that white candidate, was the second or third highest supported candidate amongst black voters, applying	2	A. Yeah. I wasn't yeah, sure.Q. Okay. So let's just look at the last 10
2 3 4	candidate, that white candidate, was the second or third highest supported candidate amongst black voters, applying that decision rule, we would list that white candidate,	2 3 4	A. Yeah. I wasn't yeah, sure. Q. Okay. So let's just look at the last 10 years, right. And I don't mean the last 10 elections, I
2 3 4 5 6 7	candidate, that white candidate, was the second or third highest supported candidate amongst black voters, applying that decision rule, we would list that white candidate, right?	2 3 4 5	A. Yeah. I wasn't yeah, sure. Q. Okay. So let's just look at the last 10 years, right. And I don't mean the last 10 elections, I just mean the last decade starting in the 2006 election.
2 3 4 5 6 7 8	candidate, that white candidate, was the second or third highest supported candidate amongst black voters, applying that decision rule, we would list that white candidate, right? A. Right. We've applied a decision rule that	2 3 4 5 6	A. Yeah. I wasn't yeah, sure. Q. Okay. So let's just look at the last 10 years, right. And I don't mean the last 10 elections, I just mean the last decade starting in the 2006 election. According to this decision rule, how many black-preferred
2 3 4 5 6 7 8	candidate, that white candidate, was the second or third highest supported candidate amongst black voters, applying that decision rule, we would list that white candidate, right? A. Right. We've applied a decision rule that that excludes so in a situation where the where the votes were split among a number of candidates, we've excluded those here. That's the approach we've taken.	2 3 4 5 6 7 8	A. Yeah. I wasn't yeah, sure. Q. Okay. So let's just look at the last 10 years, right. And I don't mean the last 10 elections, I just mean the last decade starting in the 2006 election. According to this decision rule, how many black-preferred candidates are there? A. 12. Q. And how many of those 12 candidates were
2 3 4 5 6 7 8	candidate, that white candidate, was the second or third highest supported candidate amongst black voters, applying that decision rule, we would list that white candidate, right? A. Right. We've applied a decision rule that that excludes so in a situation where the where the votes were split among a number of candidates, we've	2 3 4 5 6 7 8	A. Yeah. I wasn't yeah, sure. Q. Okay. So let's just look at the last 10 years, right. And I don't mean the last 10 elections, I just mean the last decade starting in the 2006 election. According to this decision rule, how many black-preferred candidates are there? A. 12.
2 3 4 5 6 7 8 9 10	candidate, that white candidate, was the second or third highest supported candidate amongst black voters, applying that decision rule, we would list that white candidate, right? A. Right. We've applied a decision rule that that excludes so in a situation where the where the votes were split among a number of candidates, we've excluded those here. That's the approach we've taken.	2 3 4 5 6 7 8	A. Yeah. I wasn't yeah, sure. Q. Okay. So let's just look at the last 10 years, right. And I don't mean the last 10 elections, I just mean the last decade starting in the 2006 election. According to this decision rule, how many black-preferred candidates are there? A. 12. Q. And how many of those 12 candidates were
2 3 4 5 6 7 8 9	candidate, that white candidate, was the second or third highest supported candidate amongst black voters, applying that decision rule, we would list that white candidate, right? A. Right. We've applied a decision rule that that excludes so in a situation where the where the votes were split among a number of candidates, we've excluded those here. That's the approach we've taken. Q. The decision rule doesn't explicitly	2 3 4 5 6 7 8 9	A. Yeah. I wasn't yeah, sure. Q. Okay. So let's just look at the last 10 years, right. And I don't mean the last 10 elections, I just mean the last decade starting in the 2006 election. According to this decision rule, how many black-preferred candidates are there? A. 12. Q. And how many of those 12 candidates were successful?
2 3 4 5 6 7 8 9 10	candidate, that white candidate, was the second or third highest supported candidate amongst black voters, applying that decision rule, we would list that white candidate, right? A. Right. We've applied a decision rule that that excludes so in a situation where the where the votes were split among a number of candidates, we've excluded those here. That's the approach we've taken. Q. The decision rule doesn't explicitly incorporate the race of the candidate in the decision	2 3 4 5 6 7 8 9 10	A. Yeah. I wasn't yeah, sure. Q. Okay. So let's just look at the last 10 years, right. And I don't mean the last 10 elections, I just mean the last decade starting in the 2006 election. According to this decision rule, how many black-preferred candidates are there? A. 12. Q. And how many of those 12 candidates were successful? A. Four.
2 3 4 5 6 7 8 9 10 11 12 13	candidate, that white candidate, was the second or third highest supported candidate amongst black voters, applying that decision rule, we would list that white candidate, right? A. Right. We've applied a decision rule that that excludes so in a situation where the where the votes were split among a number of candidates, we've excluded those here. That's the approach we've taken. Q. The decision rule doesn't explicitly incorporate the race of the candidate in the decision rule. A. No, it does not. It is a it is a way of achieving that goal without doing it.	2 3 4 5 6 7 8 9 10 11 12 13	A. Yeah. I wasn't yeah, sure. Q. Okay. So let's just look at the last 10 years, right. And I don't mean the last 10 elections, I just mean the last decade starting in the 2006 election. According to this decision rule, how many black-preferred candidates are there? A. 12. Q. And how many of those 12 candidates were successful? A. Four. Q. So that's about 33 percent; is that right? A. Yes. Q. And how many white-preferred candidates were
2 3 4 5 6 7 8 9 10 11 12 13 14 15	candidate, that white candidate, was the second or third highest supported candidate amongst black voters, applying that decision rule, we would list that white candidate, right? A. Right. We've applied a decision rule that that excludes so in a situation where the where the votes were split among a number of candidates, we've excluded those here. That's the approach we've taken. Q. The decision rule doesn't explicitly incorporate the race of the candidate in the decision rule. A. No, it does not. It is a it is a way of achieving that goal without doing it. Q. That's the result of a decision rule, correct,	2 3 4 5 6 7 8 9 10 11 12 13 14	A. Yeah. I wasn't yeah, sure. Q. Okay. So let's just look at the last 10 years, right. And I don't mean the last 10 elections, I just mean the last decade starting in the 2006 election. According to this decision rule, how many black-preferred candidates are there? A. 12. Q. And how many of those 12 candidates were successful? A. Four. Q. So that's about 33 percent; is that right? A. Yes.
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	candidate, that white candidate, was the second or third highest supported candidate amongst black voters, applying that decision rule, we would list that white candidate, right? A. Right. We've applied a decision rule that that excludes so in a situation where the where the votes were split among a number of candidates, we've excluded those here. That's the approach we've taken. Q. The decision rule doesn't explicitly incorporate the race of the candidate in the decision rule. A. No, it does not. It is a it is a way of achieving that goal without doing it.	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	A. Yeah. I wasn't yeah, sure. Q. Okay. So let's just look at the last 10 years, right. And I don't mean the last 10 elections, I just mean the last decade starting in the 2006 election. According to this decision rule, how many black-preferred candidates are there? A. 12. Q. And how many of those 12 candidates were successful? A. Four. Q. So that's about 33 percent; is that right? A. Yes. Q. And how many white-preferred candidates were there in the last decade? A. 13.
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	candidate, that white candidate, was the second or third highest supported candidate amongst black voters, applying that decision rule, we would list that white candidate, right? A. Right. We've applied a decision rule that that excludes so in a situation where the where the votes were split among a number of candidates, we've excluded those here. That's the approach we've taken. Q. The decision rule doesn't explicitly incorporate the race of the candidate in the decision rule. A. No, it does not. It is a it is a way of achieving that goal without doing it. Q. That's the result of a decision rule, correct, Dr. Rodden? A. It is.	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	A. Yeah. I wasn't yeah, sure. Q. Okay. So let's just look at the last 10 years, right. And I don't mean the last 10 elections, I just mean the last decade starting in the 2006 election. According to this decision rule, how many black-preferred candidates are there? A. 12. Q. And how many of those 12 candidates were successful? A. Four. Q. So that's about 33 percent; is that right? A. Yes. Q. And how many white-preferred candidates were there in the last decade? A. 13. Q. And how many of those were successful?
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	candidate, that white candidate, was the second or third highest supported candidate amongst black voters, applying that decision rule, we would list that white candidate, right? A. Right. We've applied a decision rule that that excludes so in a situation where the where the votes were split among a number of candidates, we've excluded those here. That's the approach we've taken. Q. The decision rule doesn't explicitly incorporate the race of the candidate in the decision rule. A. No, it does not. It is a it is a way of achieving that goal without doing it. Q. That's the result of a decision rule, correct, Dr. Rodden? A. It is. Q. Okay. Let's add up, according to this	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	A. Yeah. I wasn't yeah, sure. Q. Okay. So let's just look at the last 10 years, right. And I don't mean the last 10 elections, I just mean the last decade starting in the 2006 election. According to this decision rule, how many black-preferred candidates are there? A. 12. Q. And how many of those 12 candidates were successful? A. Four. Q. So that's about 33 percent; is that right? A. Yes. Q. And how many white-preferred candidates were there in the last decade? A. 13.
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	candidate, that white candidate, was the second or third highest supported candidate amongst black voters, applying that decision rule, we would list that white candidate, right? A. Right. We've applied a decision rule that that excludes so in a situation where the where the votes were split among a number of candidates, we've excluded those here. That's the approach we've taken. Q. The decision rule doesn't explicitly incorporate the race of the candidate in the decision rule. A. No, it does not. It is a it is a way of achieving that goal without doing it. Q. That's the result of a decision rule, correct, Dr. Rodden? A. It is. Q. Okay. Let's add up, according to this decision rule, how many white-preferred candidates there	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	A. Yeah. I wasn't yeah, sure. Q. Okay. So let's just look at the last 10 years, right. And I don't mean the last 10 elections, I just mean the last decade starting in the 2006 election. According to this decision rule, how many black-preferred candidates are there? A. 12. Q. And how many of those 12 candidates were successful? A. Four. Q. So that's about 33 percent; is that right? A. Yes. Q. And how many white-preferred candidates were there in the last decade? A. 13. Q. And how many of those were successful? A. 12. Q. Okay. And if we just do the last five years,
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	candidate, that white candidate, was the second or third highest supported candidate amongst black voters, applying that decision rule, we would list that white candidate, right? A. Right. We've applied a decision rule that that excludes so in a situation where the where the votes were split among a number of candidates, we've excluded those here. That's the approach we've taken. Q. The decision rule doesn't explicitly incorporate the race of the candidate in the decision rule. A. No, it does not. It is a it is a way of achieving that goal without doing it. Q. That's the result of a decision rule, correct, Dr. Rodden? A. It is. Q. Okay. Let's add up, according to this	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	A. Yeah. I wasn't yeah, sure. Q. Okay. So let's just look at the last 10 years, right. And I don't mean the last 10 elections, I just mean the last decade starting in the 2006 election. According to this decision rule, how many black-preferred candidates are there? A. 12. Q. And how many of those 12 candidates were successful? A. Four. Q. So that's about 33 percent; is that right? A. Yes. Q. And how many white-preferred candidates were there in the last decade? A. 13. Q. And how many of those were successful? A. 12. Q. Okay. And if we just do the last five years, how many black-preferred candidates, according to this
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	candidate, that white candidate, was the second or third highest supported candidate amongst black voters, applying that decision rule, we would list that white candidate, right? A. Right. We've applied a decision rule that that excludes so in a situation where the where the votes were split among a number of candidates, we've excluded those here. That's the approach we've taken. Q. The decision rule doesn't explicitly incorporate the race of the candidate in the decision rule. A. No, it does not. It is a it is a way of achieving that goal without doing it. Q. That's the result of a decision rule, correct, Dr. Rodden? A. It is. Q. Okay. Let's add up, according to this decision rule, how many white-preferred candidates there have been since the 2000 election. A. I have in 2012 I have, unfortunately,	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	A. Yeah. I wasn't yeah, sure. Q. Okay. So let's just look at the last 10 years, right. And I don't mean the last 10 elections, I just mean the last decade starting in the 2006 election. According to this decision rule, how many black-preferred candidates are there? A. 12. Q. And how many of those 12 candidates were successful? A. Four. Q. So that's about 33 percent; is that right? A. Yes. Q. And how many white-preferred candidates were there in the last decade? A. 13. Q. And how many of those were successful? A. 12. Q. Okay. And if we just do the last five years, how many black-preferred candidates, according to this decision rule, were there?
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	candidate, that white candidate, was the second or third highest supported candidate amongst black voters, applying that decision rule, we would list that white candidate, right? A. Right. We've applied a decision rule that that excludes so in a situation where the where the votes were split among a number of candidates, we've excluded those here. That's the approach we've taken. Q. The decision rule doesn't explicitly incorporate the race of the candidate in the decision rule. A. No, it does not. It is a it is a way of achieving that goal without doing it. Q. That's the result of a decision rule, correct, Dr. Rodden? A. It is. Q. Okay. Let's add up, according to this decision rule, how many white-preferred candidates there have been since the 2000 election. A. I have in 2012 I have, unfortunately, written something that is not legible, so if someone could	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	A. Yeah. I wasn't yeah, sure. Q. Okay. So let's just look at the last 10 years, right. And I don't mean the last 10 elections, I just mean the last decade starting in the 2006 election. According to this decision rule, how many black-preferred candidates are there? A. 12. Q. And how many of those 12 candidates were successful? A. Four. Q. So that's about 33 percent; is that right? A. Yes. Q. And how many white-preferred candidates were there in the last decade? A. 13. Q. And how many of those were successful? A. 12. Q. Okay. And if we just do the last five years, how many black-preferred candidates, according to this decision rule, were there? A. Eight candidates.
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	candidate, that white candidate, was the second or third highest supported candidate amongst black voters, applying that decision rule, we would list that white candidate, right? A. Right. We've applied a decision rule that that excludes so in a situation where the where the votes were split among a number of candidates, we've excluded those here. That's the approach we've taken. Q. The decision rule doesn't explicitly incorporate the race of the candidate in the decision rule. A. No, it does not. It is a it is a way of achieving that goal without doing it. Q. That's the result of a decision rule, correct, Dr. Rodden? A. It is. Q. Okay. Let's add up, according to this decision rule, how many white-preferred candidates there have been since the 2000 election. A. I have in 2012 I have, unfortunately, written something that is not legible, so if someone could help me with what we decided on, I will take your word for	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	A. Yeah. I wasn't yeah, sure. Q. Okay. So let's just look at the last 10 years, right. And I don't mean the last 10 elections, I just mean the last decade starting in the 2006 election. According to this decision rule, how many black-preferred candidates are there? A. 12. Q. And how many of those 12 candidates were successful? A. Four. Q. So that's about 33 percent; is that right? A. Yes. Q. And how many white-preferred candidates were there in the last decade? A. 13. Q. And how many of those were successful? A. 12. Q. Okay. And if we just do the last five years, how many black-preferred candidates, according to this decision rule, were there? A. Eight candidates. Q. And how many were successful?
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	candidate, that white candidate, was the second or third highest supported candidate amongst black voters, applying that decision rule, we would list that white candidate, right? A. Right. We've applied a decision rule that that excludes so in a situation where the where the votes were split among a number of candidates, we've excluded those here. That's the approach we've taken. Q. The decision rule doesn't explicitly incorporate the race of the candidate in the decision rule. A. No, it does not. It is a it is a way of achieving that goal without doing it. Q. That's the result of a decision rule, correct, Dr. Rodden? A. It is. Q. Okay. Let's add up, according to this decision rule, how many white-preferred candidates there have been since the 2000 election. A. I have in 2012 I have, unfortunately, written something that is not legible, so if someone could	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	A. Yeah. I wasn't yeah, sure. Q. Okay. So let's just look at the last 10 years, right. And I don't mean the last 10 elections, I just mean the last decade starting in the 2006 election. According to this decision rule, how many black-preferred candidates are there? A. 12. Q. And how many of those 12 candidates were successful? A. Four. Q. So that's about 33 percent; is that right? A. Yes. Q. And how many white-preferred candidates were there in the last decade? A. 13. Q. And how many of those were successful? A. 12. Q. Okay. And if we just do the last five years, how many black-preferred candidates, according to this decision rule, were there? A. Eight candidates.

	Page 249		Page 251
1	A. Yes.	1	A. Yes.
2	Q. And how many white-preferred candidates were	2	Q. Clark is not African-American, right?
3	there in the last five years?	3	A. Correct.
4	A. Nine.	4	Q. Barbara Morris is African-American, that gives
5	Q. And how many were successful?	5	us 12, right?
6	A. Eight.	6	A. Yes.
7	Q. And what kind of success rate is that?	7	Q. Schroeder is not African-American. Henson is
8	A. It is high.	8 .	African-American, that's 13, right?
9	Q. Almost 90 percent, right?	9	A. Yes.
10	A. Yes.	10	Q. And Hogshead is not African-American, right?
11	Q. Okay. Let's look at your decision rule in	11	A. Correct.
12	Exhibit 12, or one of your two decision rules. This is	12	Q. Paulette, Johnson and Savala are all
13	the one where we just look at the point estimates. If we	13	African-American, that's 16, right?
14	look at the last 15 years worth of elections dating back	14	A. Correct.
15	to 2000, you have 27 black-preferred candidates, using	15	Q. Graves is African-American, that's 17, right?
16	this decision rule, correct?	16	A. Right.
17	A. Yes.	17	Q. Dameron is not African-American, right?
18	Q. And according to my count, and you can double	18	A. Correct.
19	check me and tell me if I'm wrong, 17 of those 27	19	Q. So we get the same number, 17 out of 27
20	black-preferred candidates were black; is that right?	20	minority-preferred candidates are African-American using
21	A. I'm sorry. The question is how many of the 27	21	the point estimates to define minority-preferred, correct?
22	black-preferred candidates were black?	22	A. Correct.
23	Q. Uh-huh.	23	Q. Okay. Now, for white-preferred candidates
24	A. I didn't code them on my sheet, so it might	24	using the point estimates, let's run through this and see
25	take a moment.	25	how many are African-American. In the first row I count
	Page 250		Page 252
1	Q. Do you want to run through it together?		Thomas, correct? That's one, right?
2	Q. Do you want to run through it together?A. Yeah, we could do that.	2	Thomas, correct? That's one, right? A. Right.
2	 Q. Do you want to run through it together? A. Yeah, we could do that. Q. Okay. Thomas is African-American, that's one, 	2	Thomas, correct? That's one, right? A. Right. Q. I count zero in the second row. Zero in the
2 3 4	 Q. Do you want to run through it together? A. Yeah, we could do that. Q. Okay. Thomas is African-American, that's one, right, starting at the top? 	2 3 4 t	Thomas, correct? That's one, right? A. Right. Q. I count zero in the second row. Zero in the third row. Zero in the fourth row. Zero in 2004, the
2 3 4 5	 Q. Do you want to run through it together? A. Yeah, we could do that. Q. Okay. Thomas is African-American, that's one, right, starting at the top? A. Yes. 	2 3 4 1 5 1	Thomas, correct? That's one, right? A. Right. Q. I count zero in the second row. Zero in the third row. Zero in the fourth row. Zero in 2004, the next row. Zero in 2009, the
2 3 4 5 6	 Q. Do you want to run through it together? A. Yeah, we could do that. Q. Okay. Thomas is African-American, that's one, right, starting at the top? A. Yes. Q. Hirsch is not, right? 	2 3 4 1 5 1	Thomas, correct? That's one, right? A. Right. Q. I count zero in the second row. Zero in the third row. Zero in the fourth row. Zero in 2004, the next row. Zero in 2006, the next row. Zero in 2011, the next row. Zero in 2012, the
2 3 4 5 6 7	 Q. Do you want to run through it together? A. Yeah, we could do that. Q. Okay. Thomas is African-American, that's one, right, starting at the top? A. Yes. Q. Hirsch is not, right? A. Okay. 	2 3 4 1 5 1 6 1 7 1	Thomas, correct? That's one, right? A. Right. Q. I count zero in the second row. Zero in the third row. Zero in the fourth row. Zero in 2004, the next row. Zero in 2006, the next row. Zero in 2011, the next row. Zero in 2012, the next row. Zero in 2013, the next row. Zero in 2014, the
2 3 4 5 6 7 8	 Q. Do you want to run through it together? A. Yeah, we could do that. Q. Okay. Thomas is African-American, that's one, right, starting at the top? A. Yes. Q. Hirsch is not, right? A. Okay. Q. Butler is African-American, that's two. 	2 3 4 1 5 1 6 1 7 1 8 1	Thomas, correct? That's one, right? A. Right. Q. I count zero in the second row. Zero in the third row. Zero in the fourth row. Zero in 2004, the next row. Zero in 2006, the next row. Zero in 2011, the next row. Zero in 2011, the next row. Zero in 2013, the next row. Zero in 2014, the next row. And one in 2015, the next row. Is that right,
2 3 4 5 6 7 8	 Q. Do you want to run through it together? A. Yeah, we could do that. Q. Okay. Thomas is African-American, that's one, right, starting at the top? A. Yes. Q. Hirsch is not, right? A. Okay. Q. Butler is African-American, that's two. A. Yes. 	2 3 4 1 5 1 6 1 7 1 8 1	Thomas, correct? That's one, right? A. Right. Q. I count zero in the second row. Zero in the third row. Zero in the fourth row. Zero in 2004, the next row. Zero in 2006, the next row. Zero in 2009, the next row. Zero in 2011, the next row. Zero in 2012, the next row. Zero in 2013, the next row. Zero in 2014, the next row. And one in 2015, the next row. Is that right, Dr. Rodden?
2 3 4 5 6 7 8 9	 Q. Do you want to run through it together? A. Yeah, we could do that. Q. Okay. Thomas is African-American, that's one, right, starting at the top? A. Yes. Q. Hirsch is not, right? A. Okay. Q. Butler is African-American, that's two. A. Yes. Q. Garofalo is not, correct? 	2 3 4 1 5 1 6 1 7 1 8 1 9 1	Thomas, correct? That's one, right? A. Right. Q. I count zero in the second row. Zero in the third row. Zero in the fourth row. Zero in 2004, the next row. Zero in 2006, the next row. Zero in 2011, the next row. Zero in 2011, the next row. Zero in 2011, the next row. Zero in 2014, the next row. And one in 2015, the next row. Is that right, Dr. Rodden? A. Yes.
2 3 4 5 6 7 8 9 10	 Q. Do you want to run through it together? A. Yeah, we could do that. Q. Okay. Thomas is African-American, that's one, right, starting at the top? A. Yes. Q. Hirsch is not, right? A. Okay. Q. Butler is African-American, that's two. A. Yes. Q. Garofalo is not, correct? A. Right. 	2 3 4 1 5 1 6 1 7 1 8 1 9 1	Thomas, correct? That's one, right? A. Right. Q. I count zero in the second row. Zero in the third row. Zero in the fourth row. Zero in 2004, the next row. Zero in 2006, the next row. Zero in 2019, the next row. Zero in 2011, the next row. Zero in 2012, the next row. Zero in 2013, the next row. Zero in 2014, the next row. And one in 2015, the next row. Is that right, Dr. Rodden? A. Yes. Q. So using one of your decision rules, point
2 3 4 5 6 7 8 9 10 11	 Q. Do you want to run through it together? A. Yeah, we could do that. Q. Okay. Thomas is African-American, that's one, right, starting at the top? A. Yes. Q. Hirsch is not, right? A. Okay. Q. Butler is African-American, that's two. A. Yes. Q. Garofalo is not, correct? A. Right. Q. Graham is African-American, that's three. 	2 3 4 1 5 1 6 1 7 1 8 1 9 1 10 11	Thomas, correct? That's one, right? A. Right. Q. I count zero in the second row. Zero in the third row. Zero in the fourth row. Zero in 2004, the next row. Zero in 2006, the next row. Zero in 2009, the next row. Zero in 2011, the next row. Zero in 2012, the next row. Zero in 2013, the next row. Zero in 2014, the next row. And one in 2015, the next row. Is that right, Dr. Rodden? A. Yes. Q. So using one of your decision rules, point estimates, two out of 27 white-preferred candidates in the
2 3 4 5 6 7 8 9 10 11 12 13	 Q. Do you want to run through it together? A. Yeah, we could do that. Q. Okay. Thomas is African-American, that's one, right, starting at the top? A. Yes. Q. Hirsch is not, right? A. Okay. Q. Butler is African-American, that's two. A. Yes. Q. Garofalo is not, correct? A. Right. Q. Graham is African-American, that's three. Butler is African-American, that's four, right? Clark is 	2 3 4 1 5 1 6 1 7 1 8 1 9 1 10 11 12 6 13 1	Thomas, correct? That's one, right? A. Right. Q. I count zero in the second row. Zero in the third row. Zero in the fourth row. Zero in 2004, the next row. Zero in 2006, the next row. Zero in 2019, the next row. Zero in 2011, the next row. Zero in 2011, the next row. Zero in 2012, the next row. Zero in 2013, the next row. Zero in 2014, the next row. And one in 2015, the next row. Is that right, Dr. Rodden? A. Yes. Q. So using one of your decision rules, point estimates, two out of 27 white-preferred candidates in the last 16 years are African-American, correct?
2 3 4 5 6 7 8 9 10 11 12 13	 Q. Do you want to run through it together? A. Yeah, we could do that. Q. Okay. Thomas is African-American, that's one, right, starting at the top? A. Yes. Q. Hirsch is not, right? A. Okay. Q. Butler is African-American, that's two. A. Yes. Q. Garofalo is not, correct? A. Right. Q. Graham is African-American, that's three. Butler is African-American, that's four, right? Clark is not, right? 	2 3 4 1 5 1 7 1 8 1 9 1 10 11 12 6 13 1	Thomas, correct? That's one, right? A. Right. Q. I count zero in the second row. Zero in the third row. Zero in the fourth row. Zero in 2004, the next row. Zero in 2006, the next row. Zero in 2012, the next row. Zero in 2011, the next row. Zero in 2012, the next row. Zero in 2013, the next row. Zero in 2014, the next row. And one in 2015, the next row. Is that right, Dr. Rodden? A. Yes. Q. So using one of your decision rules, point estimates, two out of 27 white-preferred candidates in the last 16 years are African-American, correct? A. Yes.
2 3 4 5 6 7 8 9 10 11 12 13 14	 Q. Do you want to run through it together? A. Yeah, we could do that. Q. Okay. Thomas is African-American, that's one, right, starting at the top? A. Yes. Q. Hirsch is not, right? A. Okay. Q. Butler is African-American, that's two. A. Yes. Q. Garofalo is not, correct? A. Right. Q. Graham is African-American, that's three. Butler is African-American, that's four, right? Clark is not, right? A. Right. 	2 3 4 1 5 1 6 1 7 1 8 1 10 11 12 0 13 1 14 15	Thomas, correct? That's one, right? A. Right. Q. I count zero in the second row. Zero in the third row. Zero in the fourth row. Zero in 2004, the next row. Zero in 2006, the next row. Zero in 2019, the next row. Zero in 2011, the next row. Zero in 2011, the next row. Zero in 2014, the next row. And one in 2015, the next row. Is that right, Dr. Rodden? A. Yes. Q. So using one of your decision rules, point estimates, two out of 27 white-preferred candidates in the last 16 years are African-American, correct? A. Yes. Q. Okay. Turning back to the report, I just have
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	 Q. Do you want to run through it together? A. Yeah, we could do that. Q. Okay. Thomas is African-American, that's one, right, starting at the top? A. Yes. Q. Hirsch is not, right? A. Okay. Q. Butler is African-American, that's two. A. Yes. Q. Garofalo is not, correct? A. Right. Q. Graham is African-American, that's three. Butler is African-American, that's four, right? Clark is not, right? A. Right. Q. Thomas is African-American, that's five, 	2 3 4 1 5 1 6 1 7 1 8 1 9 1 10 11 12 0 13 1 14 15 16 a	Thomas, correct? That's one, right? A. Right. Q. I count zero in the second row. Zero in the third row. Zero in the fourth row. Zero in 2004, the next row. Zero in 2006, the next row. Zero in 2009, the next row. Zero in 2011, the next row. Zero in 2012, the next row. Zero in 2013, the next row. Zero in 2014, the next row. And one in 2015, the next row. Is that right, Dr. Rodden? A. Yes. Q. So using one of your decision rules, point estimates, two out of 27 white-preferred candidates in the last 16 years are African-American, correct? A. Yes. Q. Okay. Turning back to the report, I just have a few more questions and then maybe it will be a good time
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	 Q. Do you want to run through it together? A. Yeah, we could do that. Q. Okay. Thomas is African-American, that's one, right, starting at the top? A. Yes. Q. Hirsch is not, right? A. Okay. Q. Butler is African-American, that's two. A. Yes. Q. Garofalo is not, correct? A. Right. Q. Graham is African-American, that's three. Butler is African-American, that's four, right? Clark is not, right? A. Right. Q. Thomas is African-American, that's five, right? Knorr is not. Van and McClendon are both 	2 3 4 1 5 6 7 8 9 10 11 12 13 14 15 16 17 1	Thomas, correct? That's one, right? A. Right. Q. I count zero in the second row. Zero in the third row. Zero in the fourth row. Zero in 2004, the next row. Zero in 2004, the next row. Zero in 2011, the next row. Zero in 2012, the next row. Zero in 2013, the next row. Zero in 2014, the next row. And one in 2015, the next row. Is that right, Dr. Rodden? A. Yes. Q. So using one of your decision rules, point estimates, two out of 27 white-preferred candidates in the last 16 years are African-American, correct? A. Yes. Q. Okay. Turning back to the report, I just have a few more questions and then maybe it will be a good time for a break. Turning back to your report, on Page 35,
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	 Q. Do you want to run through it together? A. Yeah, we could do that. Q. Okay. Thomas is African-American, that's one, right, starting at the top? A. Yes. Q. Hirsch is not, right? A. Okay. Q. Butler is African-American, that's two. A. Yes. Q. Garofalo is not, correct? A. Right. Q. Graham is African-American, that's three. Butler is African-American, that's four, right? Clark is not, right? A. Right. Q. Thomas is African-American, that's five, right? Knorr is not. Van and McClendon are both African-American, so that brings us to seven, correct? 	2 3 4 1 5 6 7 8 9 10 11 12 13 14 15 16 17 18 1	Thomas, correct? That's one, right? A. Right. Q. I count zero in the second row. Zero in the third row. Zero in the fourth row. Zero in 2004, the next row. Zero in 2006, the next row. Zero in 2009, the next row. Zero in 2011, the next row. Zero in 2012, the next row. Zero in 2013, the next row. Zero in 2014, the next row. And one in 2015, the next row. Is that right, Dr. Rodden? A. Yes. Q. So using one of your decision rules, point estimates, two out of 27 white-preferred candidates in the last 16 years are African-American, correct? A. Yes. Q. Okay. Turning back to the report, I just have a few more questions and then maybe it will be a good time for a break. Turning back to your report, on Page 35, Paragraph 72, you write, "If we include these five
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	 Q. Do you want to run through it together? A. Yeah, we could do that. Q. Okay. Thomas is African-American, that's one, right, starting at the top? A. Yes. Q. Hirsch is not, right? A. Okay. Q. Butler is African-American, that's two. A. Yes. Q. Garofalo is not, correct? A. Right. Q. Graham is African-American, that's three. Butler is African-American, that's four, right? Clark is not, right? A. Right. Q. Thomas is African-American, that's five, right? Knorr is not. Van and McClendon are both African-American, so that brings us to seven, correct? A. Correct. 	2 3 4 1 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	Thomas, correct? That's one, right? A. Right. Q. I count zero in the second row. Zero in the third row. Zero in the fourth row. Zero in 2004, the next row. Zero in 2006, the next row. Zero in 2009, the next row. Zero in 2011, the next row. Zero in 2012, the next row. Zero in 2013, the next row. Zero in 2014, the next row. And one in 2015, the next row. Is that right, Dr. Rodden? A. Yes. Q. So using one of your decision rules, point estimates, two out of 27 white-preferred candidates in the last 16 years are African-American, correct? A. Yes. Q. Okay. Turning back to the report, I just have a few more questions and then maybe it will be a good time for a break. Turning back to your report, on Page 35, Paragraph 72, you write, "If we include these five uncontested elections, at least one minority-preferred
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	 Q. Do you want to run through it together? A. Yeah, we could do that. Q. Okay. Thomas is African-American, that's one, right, starting at the top? A. Yes. Q. Hirsch is not, right? A. Okay. Q. Butler is African-American, that's two. A. Yes. Q. Garofalo is not, correct? A. Right. Q. Graham is African-American, that's three. Butler is African-American, that's four, right? Clark is not, right? A. Right. Q. Thomas is African-American, that's five, right? Knorr is not. Van and McClendon are both African-American, so that brings us to seven, correct? A. Correct. Q. Thomas and Washington are African-American. 	2 3 4 1 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	Thomas, correct? That's one, right? A. Right. Q. I count zero in the second row. Zero in the third row. Zero in the fourth row. Zero in 2004, the next row. Zero in 2006, the next row. Zero in 2019, the next row. Zero in 2011, the next row. Zero in 2011, the next row. Zero in 2012, the next row. Zero in 2013, the next row. Zero in 2014, the next row. And one in 2015, the next row. Is that right, Dr. Rodden? A. Yes. Q. So using one of your decision rules, point estimates, two out of 27 white-preferred candidates in the last 16 years are African-American, correct? A. Yes. Q. Okay. Turning back to the report, I just have a few more questions and then maybe it will be a good time for a break. Turning back to your report, on Page 35, Paragraph 72, you write, "If we include these five uncontested elections, at least one minority-preferred candidate was elected in 13 of 16 elections, 81 percent."
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	 Q. Do you want to run through it together? A. Yeah, we could do that. Q. Okay. Thomas is African-American, that's one, right, starting at the top? A. Yes. Q. Hirsch is not, right? A. Okay. Q. Butler is African-American, that's two. A. Yes. Q. Garofalo is not, correct? A. Right. Q. Graham is African-American, that's three. Butler is African-American, that's four, right? Clark is not, right? A. Right. Q. Thomas is African-American, that's five, right? Knorr is not. Van and McClendon are both African-American, so that brings us to seven, correct? A. Correct. Q. Thomas and Washington are African-American. That brings us to nine, correct? 	2 3 4 1 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 6	Thomas, correct? That's one, right? A. Right. Q. I count zero in the second row. Zero in the third row. Zero in the fourth row. Zero in 2004, the next row. Zero in 2006, the next row. Zero in 2009, the next row. Zero in 2011, the next row. Zero in 2012, the next row. Zero in 2013, the next row. Zero in 2014, the next row. And one in 2015, the next row. Is that right, Dr. Rodden? A. Yes. Q. So using one of your decision rules, point estimates, two out of 27 white-preferred candidates in the last 16 years are African-American, correct? A. Yes. Q. Okay. Turning back to the report, I just have a few more questions and then maybe it will be a good time for a break. Turning back to your report, on Page 35, Paragraph 72, you write, "If we include these five uncontested elections, at least one minority-preferred
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	 Q. Do you want to run through it together? A. Yeah, we could do that. Q. Okay. Thomas is African-American, that's one, right, starting at the top? A. Yes. Q. Hirsch is not, right? A. Okay. Q. Butler is African-American, that's two. A. Yes. Q. Garofalo is not, correct? A. Right. Q. Graham is African-American, that's three. Butler is African-American, that's four, right? Clark is not, right? A. Right. Q. Thomas is African-American, that's five, right? Knorr is not. Van and McClendon are both African-American, so that brings us to seven, correct? A. Correct. Q. Thomas and Washington are African-American. 	2 3 4 1 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	Thomas, correct? That's one, right? A. Right. Q. I count zero in the second row. Zero in the third row. Zero in the fourth row. Zero in 2004, the next row. Zero in 2006, the next row. Zero in 2019, the next row. Zero in 2011, the next row. Zero in 2011, the next row. Zero in 2012, the next row. Zero in 2013, the next row. Zero in 2014, the next row. And one in 2015, the next row. Is that right, Dr. Rodden? A. Yes. Q. So using one of your decision rules, point estimates, two out of 27 white-preferred candidates in the last 16 years are African-American, correct? A. Yes. Q. Okay. Turning back to the report, I just have a few more questions and then maybe it will be a good time for a break. Turning back to your report, on Page 35, Paragraph 72, you write, "If we include these five uncontested elections, at least one minority-preferred candidate was elected in 13 of 16 elections, 81 percent." Did I read what you wrote accurately? A. Yes.
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	 Q. Do you want to run through it together? A. Yeah, we could do that. Q. Okay. Thomas is African-American, that's one, right, starting at the top? A. Yes. Q. Hirsch is not, right? A. Okay. Q. Butler is African-American, that's two. A. Yes. Q. Garofalo is not, correct? A. Right. Q. Graham is African-American, that's three. Butler is African-American, that's four, right? Clark is not, right? A. Right. Q. Thomas is African-American, that's five, right? Knorr is not. Van and McClendon are both African-American, so that brings us to seven, correct? A. Correct. Q. Thomas and Washington are African-American. That brings us to nine, correct? A. Correct. 	2 3 4 1 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	Thomas, correct? That's one, right? A. Right. Q. I count zero in the second row. Zero in the third row. Zero in the fourth row. Zero in 2004, the next row. Zero in 2006, the next row. Zero in 2019, the next row. Zero in 2011, the next row. Zero in 2012, the next row. Zero in 2013, the next row. Zero in 2014, the next row. And one in 2015, the next row. Is that right, Dr. Rodden? A. Yes. Q. So using one of your decision rules, point estimates, two out of 27 white-preferred candidates in the last 16 years are African-American, correct? A. Yes. Q. Okay. Turning back to the report, I just have a few more questions and then maybe it will be a good time for a break. Turning back to your report, on Page 35, Paragraph 72, you write, "If we include these five uncontested elections, at least one minority-preferred candidate was elected in 13 of 16 elections, 81 percent." Did I read what you wrote accurately?
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	 Q. Do you want to run through it together? A. Yeah, we could do that. Q. Okay. Thomas is African-American, that's one, right, starting at the top? A. Yes. Q. Hirsch is not, right? A. Okay. Q. Butler is African-American, that's two. A. Yes. Q. Garofalo is not, correct? A. Right. Q. Graham is African-American, that's three. Butler is African-American, that's four, right? Clark is not, right? A. Right. Q. Thomas is African-American, that's five, right? Knorr is not. Van and McClendon are both African-American, so that brings us to seven, correct? A. Correct. Q. Thomas and Washington are African-American. That brings us to nine, correct? A. Correct. Q. Knowles and Schroeder are not 	2 3 4 1 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 1	Thomas, correct? That's one, right? A. Right. Q. I count zero in the second row. Zero in the third row. Zero in the fourth row. Zero in 2004, the next row. Zero in 2006, the next row. Zero in 2009, the next row. Zero in 2011, the next row. Zero in 2012, the next row. Zero in 2013, the next row. Zero in 2014, the next row. And one in 2015, the next row. Is that right, Dr. Rodden? A. Yes. Q. So using one of your decision rules, point estimates, two out of 27 white-preferred candidates in the last 16 years are African-American, correct? A. Yes. Q. Okay. Turning back to the report, I just have a few more questions and then maybe it will be a good time for a break. Turning back to your report, on Page 35, Paragraph 72, you write, "If we include these five uncontested elections, at least one minority-preferred candidate was elected in 13 of 16 elections, 81 percent." Did I read what you wrote accurately? A. Yes. Q. Okay. And to be clear, this 13 out of 16

	Page 253		Page 255
1	A. Yes.	1	A. Yes.
2	Q. And it includes the 2007 and 2010 uncontested	2	Q. And when you say that in nine of 12 elections
3	elections where Leslie Hogshead ascended to office, and	3	a minority-preferred candidate won, that's using that
4	you count her as a black-preferred candidate; is that	4	decision rule of using point estimates to ascertain
5	correct?	5	- ·
		6	whether or not a candidate has minority-preferred status,
6	A. I believe so, but as we discussed, I don't	7	correct?
7	recall, but I believe it's true.		A. That's what that sentence refers to. I think
8	Q. Okay. Now, the next sentence you write, "If	8	that's correct.
9	we exclude them, this is true of nine of 12 elections."	9	Q. Right. So when you say nine out of 12, you're
10	Correct? I read that correctly, right, 75 percent?	10	talking about the number of elections, and at least one of
11	A. Yes.	11	those minority-preferred candidates, as defined by the
12	Q. Now, this nine of 12 figure, this is limited	12	point estimates, is successful, correct?
13	to the contested elections, right?	13	A. Yes.
14	A. Yes.	14	Q. This nine out of 12, this nine out of 12
15	Q. And this statement nine out of 12, makes no	15	figure, it's not the overall rate at which
16	effort to assign greater probative value to recent	16	minority-preferred candidates are successful, right?
17	elections as opposed to older ones, correct?	17	A. That's right. I think it I think it's
18	A. Correct.	18	clear in the text.
19	Q. And this statement makes no effort to	19	Q. So in a
20	distinguish among elections with special circumstances	20	A. Hope it is.
21	that might facilitate the victory of a black-preferred	21	Q. Yeah. In a three-seat election, if one out of
22	candidate, correct? It's just a raw number, right?	22	the three minority-preferred candidates is successful, the
23	A. The yeah. Well, the question about special	23	way that you're tallying things up here, you would count
24	circumstances, there are we've been going through some	24	that as an election in which a minority-preferred
25	text where there are paragraphs that discussed various	25	candidate was successful, correct?
1	Page 254 idiosyncrasies of every election, so I wouldn't say I	1	Page 256 A. Yes.
2	don't discuss any special circumstances. I mean in some	2	Q. And that's even if two out of three of the
3	ways every election is special, but I don't I don't	3	minority-preferred candidates in that election lose,
4	have a strong story about special elections.	4	correct?
5	Q. I just mean this statistic that you're	5	A. Yes. Again, I when I sat down and wrote
6	quoting, it doesn't try to assign greater value to certain	6	- I
7		7	the report, I tried to present all of the data and just
8	elections because of the circumstances, it just treats every election equally, correct?	8	provide descriptive statistics with various approaches.
	• •		At the time that I sat down to write the report, these
9	A. Correct.	9	are the approaches that, to me, seemed most useful, and
10	Q. Okay. And now, there are multiple seats in		your characterization of that of that particular
11			tallying is correct
10	every election, right?	11	tallying is correct.
12	A. Yes.	12	Q. Okay. And to be clear, this tallying makes no
13	A. Yes. Q. And in a three-seat election, if we use your	12 13	Q. Okay. And to be clear, this tallying makes no effort to assess relative levels of support amongst what
13 14	A. Yes. Q. And in a three-seat election, if we use your definition of minority-preferred candidate as the	12 13 14	Q. Okay. And to be clear, this tallying makes no effort to assess relative levels of support amongst what you would describe as black-preferred candidates, highest
13 14 15	A. Yes. Q. And in a three-seat election, if we use your definition of minority-preferred candidate as the candidates with the highest point estimates, there would	12 13 14 15	Q. Okay. And to be clear, this tallying makes no effort to assess relative levels of support amongst what you would describe as black-preferred candidates, highest point estimate
13 14 15 16	A. Yes. Q. And in a three-seat election, if we use your definition of minority-preferred candidate as the candidates with the highest point estimates, there would be three minority-preferred candidates in that election,	12 13 14 15 16	Q. Okay. And to be clear, this tallying makes no effort to assess relative levels of support amongst what you would describe as black-preferred candidates, highest point estimate A. That's right.
13 14 15 16 17	A. Yes. Q. And in a three-seat election, if we use your definition of minority-preferred candidate as the candidates with the highest point estimates, there would be three minority-preferred candidates in that election, correct?	12 13 14 15 16 17	Q. Okay. And to be clear, this tallying makes no effort to assess relative levels of support amongst what you would describe as black-preferred candidates, highest point estimate A. That's right. Q second point estimate, they're both treated
13 14 15 16 17	A. Yes. Q. And in a three-seat election, if we use your definition of minority-preferred candidate as the candidates with the highest point estimates, there would be three minority-preferred candidates in that election, correct? A. In which election? I'm sorry.	12 13 14 15 16 17 18	Q. Okay. And to be clear, this tallying makes no effort to assess relative levels of support amongst what you would describe as black-preferred candidates, highest point estimate A. That's right. Q second point estimate, they're both treated as minority-preferred regardless of the absolute levels of
13 14 15 16 17 18 19	A. Yes. Q. And in a three-seat election, if we use your definition of minority-preferred candidate as the candidates with the highest point estimates, there would be three minority-preferred candidates in that election, correct? A. In which election? I'm sorry. Q. In a three-seat election.	12 13 14 15 16 17 18 19	Q. Okay. And to be clear, this tallying makes no effort to assess relative levels of support amongst what you would describe as black-preferred candidates, highest point estimate A. That's right. Q second point estimate, they're both treated as minority-preferred regardless of the absolute levels of support amongst black voters, correct?
13 14 15 16 17 18 19 20	A. Yes. Q. And in a three-seat election, if we use your definition of minority-preferred candidate as the candidates with the highest point estimates, there would be three minority-preferred candidates in that election, correct? A. In which election? I'm sorry. Q. In a three-seat election. A. Any three-seat election?	12 13 14 15 16 17 18 19 20	Q. Okay. And to be clear, this tallying makes no effort to assess relative levels of support amongst what you would describe as black-preferred candidates, highest point estimate A. That's right. Q second point estimate, they're both treated as minority-preferred regardless of the absolute levels of support amongst black voters, correct? A. Yes.
13 14 15 16 17 18 19 20 21	A. Yes. Q. And in a three-seat election, if we use your definition of minority-preferred candidate as the candidates with the highest point estimates, there would be three minority-preferred candidates in that election, correct? A. In which election? I'm sorry. Q. In a three-seat election. A. Any three-seat election? Q. Yeah. If we use your decision rule, one of	12 13 14 15 16 17 18 19 20 21	Q. Okay. And to be clear, this tallying makes no effort to assess relative levels of support amongst what you would describe as black-preferred candidates, highest point estimate A. That's right. Q second point estimate, they're both treated as minority-preferred regardless of the absolute levels of support amongst black voters, correct? A. Yes. Q. And this tally makes no effort to distinguish
13 14 15 16 17 18 19 20 21 22	A. Yes. Q. And in a three-seat election, if we use your definition of minority-preferred candidate as the candidates with the highest point estimates, there would be three minority-preferred candidates in that election, correct? A. In which election? I'm sorry. Q. In a three-seat election. A. Any three-seat election? Q. Yeah. If we use your decision rule, one of your two decision rules of highest point estimates to	12 13 14 15 16 17 18 19 20 21 22	Q. Okay. And to be clear, this tallying makes no effort to assess relative levels of support amongst what you would describe as black-preferred candidates, highest point estimate A. That's right. Q second point estimate, they're both treated as minority-preferred regardless of the absolute levels of support amongst black voters, correct? A. Yes. Q. And this tally makes no effort to distinguish among candidates based on confidence intervals and
13 14 15 16 17 18 19 20 21 22 23	A. Yes. Q. And in a three-seat election, if we use your definition of minority-preferred candidate as the candidates with the highest point estimates, there would be three minority-preferred candidates in that election, correct? A. In which election? I'm sorry. Q. In a three-seat election. A. Any three-seat election? Q. Yeah. If we use your decision rule, one of your two decision rules of highest point estimates to confer preferred-candidate status, that would mean three	12 13 14 15 16 17 18 19 20 21 22 23	Q. Okay. And to be clear, this tallying makes no effort to assess relative levels of support amongst what you would describe as black-preferred candidates, highest point estimate A. That's right. Q second point estimate, they're both treated as minority-preferred regardless of the absolute levels of support amongst black voters, correct? A. Yes. Q. And this tally makes no effort to distinguish among candidates based on confidence intervals and statistical significance, correct?
13 14 15 16 17 18 19 20 21 22 23 24	A. Yes. Q. And in a three-seat election, if we use your definition of minority-preferred candidate as the candidates with the highest point estimates, there would be three minority-preferred candidates in that election, correct? A. In which election? I'm sorry. Q. In a three-seat election. A. Any three-seat election? Q. Yeah. If we use your decision rule, one of your two decision rules of highest point estimates to confer preferred-candidate status, that would mean three minority-preferred candidates in a three-seat election,	12 13 14 15 16 17 18 19 20 21 22 23 24	Q. Okay. And to be clear, this tallying makes no effort to assess relative levels of support amongst what you would describe as black-preferred candidates, highest point estimate A. That's right. Q second point estimate, they're both treated as minority-preferred regardless of the absolute levels of support amongst black voters, correct? A. Yes. Q. And this tally makes no effort to distinguish among candidates based on confidence intervals and statistical significance, correct? A. Correct.
13 14 15 16 17 18 19 20 21 22 23	A. Yes. Q. And in a three-seat election, if we use your definition of minority-preferred candidate as the candidates with the highest point estimates, there would be three minority-preferred candidates in that election, correct? A. In which election? I'm sorry. Q. In a three-seat election. A. Any three-seat election? Q. Yeah. If we use your decision rule, one of your two decision rules of highest point estimates to confer preferred-candidate status, that would mean three	12 13 14 15 16 17 18 19 20 21 22 23	Q. Okay. And to be clear, this tallying makes no effort to assess relative levels of support amongst what you would describe as black-preferred candidates, highest point estimate A. That's right. Q second point estimate, they're both treated as minority-preferred regardless of the absolute levels of support amongst black voters, correct? A. Yes. Q. And this tally makes no effort to distinguish among candidates based on confidence intervals and statistical significance, correct?

	Dog 257		Page 250
	Page 257		Page 259
1	same page, Paragraph 73, the second to last sentence	1	Q. And it makes no effort to distinguish amongst
2	and we've talked about these two sentences. I just want	2	what you describe as black-preferred candidates based on
3	to clarify something about them, but "Of the 37 seats up	3	confidence intervals, correct?
4	for election since 2000, 20 were won by minority-preferred	4	A. Correct.
5	candidates, 54 percent."	5	MR. HO: Cindy, I see you looking at your
6	Did I read that correctly?	6	watch. Maybe now is a good time for a break?
7	A. I would like to read the paragraph to know the	7	MS. ORMSBY: Whenever.
8	context here.	8	MR. HO: Why don't we take a break. We've
9	Q. Sure.	9	been going for almost two hours, so let's take a break.
10	A. Okay. The question again?	10	(Whereupon, a recess was taken from 4:48 to
11	Q. I read that correctly? Okay. The 37 seats up	11	5:00 P.M.)
12	for election	12	(Whereupon, Rodden Deposition Exhibit No. 18
13	A. You read it correctly, yes.	13	was marked for identification.)
14	Q since 2000, 20 were won by	14	Q. So Dr. Rodden, we talked for a while about one
15	minority-preferred candidates, 54 percent; is that right?	15	of the decision rules that you used for assessing whether
16	A. I'm sorry. Yes. I just wanted to make sure	16	or not a candidate is a minority-preferred candidate, that
17	we're in the same place. Yes. Okay.	17	was the point estimate approach.
18	Q. Okay. Great. Now, just to clarify, this	18	A. Uh-huh.
19	statement counts on contested elections, right?	19	Q. And you said that you also propose a second
20	A. Yes.	20	decision rule in this report, which is to simply look at
21	Q. Okay. And the next sentence, "If we ignore	21	the top-ranked candidate amongst minority voters and to
22	the uncontested years, minority-preferred candidates win	22	designate that candidate as minority-preferred, correct?
23	14 of 27 or 52 percent of contested seats for 2000 to	23	A. Yes.
24	2015."	24	Q. And you described that as an objective
25	I read that correctly, yes?	25	decision rule that you would accept as a political
	Page 258		Page 260
1	A. Yes.	1	scientist, correct?
2	Q. And we established earlier that your	2	A. Yes.
3	representation here is incorrect?	3	Q. I want to show you what's been marked as
4	A. That 14 should be changed to a 13.	4	Rodden Exhibit 18, and it's a demonstrative that we
5	Q. Correct.	5	generated from the data in your report, and I want to go
6	A. Right.	6	over it with you and make sure that this is correct. If
7	Q. And now that tally, 13 out of 27 is what I'll	7	it's incorrect, I want us to fix it. This lists the
8	refer to it as now, that makes no effort to assign greater	8	top-ranked candidates of white voters and the top-ranked
9	probative value to any election or candidate based on how	9	candidates of black voters, one of the decision rules, the
10	recent those elections were, correct?	10	decision rules that you say you would accept as a
11	A. Correct.	11	political scientist and the one that we just discussed,
12	Q. And it makes no attempt to assess any greater	12	okay?
13	probative value to any particular election based on	13	A. Yes.
14	whatever circumstances were present in that election,	14	Q. And I just want to go over the numbers to make
15	correct?	15	sure that we have this correct here. So I want to look at
16	A. Correct.	16	your Figure 8, or you can use the spreadsheet, Rodden
17	Q. And this statement counts anyone as this	17	Exhibit 11, whatever's easier for you, and I just want to
18	statement counts anyone as minority-preferred based on the	18	make sure we have identified correctly the top
19	point estimate decision rule that we discussed earlier,	19	white-preferred candidates and the top black-preferred
	correct?	20	candidates here, okay?
20		1	So just let me know when you're ready. So
21	A. Yes.	21	30 Just let me know when you're ready. 30
21 22	A. Yes. Q. It makes no effort to distinguish amongst	21	let's run through the top white-preferred candidates
21 22 23	Q. It makes no effort to distinguish amongst candidates based on their relative levels of support	22 23	let's run through the top white-preferred candidates starting with the 2000 election. For 2000 I have Hirsch
21 22	Q. It makes no effort to distinguish amongst	22	let's run through the top white-preferred candidates

	Page 261		Page 263
1	Q. And Hirsch is white, correct?	1	A. Yes.
2	A. Yes.	2	Q. And Schroeder was elected in 2009, correct?
3	Q. And Hirsch was elected, correct?	3	A. Yes.
4	A. Yes.	4	Q. And in 2011 I have Martinez as the top-ranked
5	Q. Okay. In 2001 I have Garofalo as the top	5	white candidate, according to your estimates, correct?
6	white-preferred candidate, according to your estimates,	6	A. That's correct.
7	correct?	7	Q. And Martinez is not black, correct?
8	A. Yes.	8	A. That's correct. He's a, as I understand,
9	Q. And Garofalo is white, correct?	9	Hispanic-white.
10	A. Yes.	10	Q. Okay. And he was elected, correct?
11	Q. And Garofalo was elected, correct?	11	A. Yes.
12	A. Yes.	12	Q. Okay. In 2012, according to your estimates,
13	Q. Okay. In 2002 I have your estimate as	13	Ebert was the top white-preferred candidate, correct?
14	indicating Fletcher is the top white-preferred candidate,	14	A. Yes.
15	correct?	15	Q. And Ebert is white, correct?
16	A. Yes.	16	A. Yes.
17	Q. And Fletcher is white, correct?	17	Q. And Ebert was elected, correct?
18	A. Yes.	18	A. Yes.
19	Q. And Fletcher was elected, correct?	19	Q. In 2013 Hogshead was the top-ranked white
20	A. Yes.	20	candidate, according to your estimates, correct?
21	Q. Okay. In 2003, according to your numbers,	21	A. Yes.
22	Knorr was the top white-preferred candidate, correct?	22	Q. And Hogshead is white, correct?
23	A. Yes.	23	A. Yes.
24	Q. And Knorr is white, correct?	24	Q. And Hogshead was elected, correct?
25	A. Yes.	25	A. Yes.
	Page 262		Page 264
1	Q. And Knorr was elected, correct?	1	Q. In 2014 Chabot was, according to your
2	A. Yes.	2	estimates, the highest-ranked candidate amongst whites,
3	Q. In 2004 I have your estimate as indicating	3	correct?
4	that Garofalo was the top white-preferred candidate,	4	A. Yes.
5	correct?	5	Q. And Chabot is white, correct?
6	A. Yes.	6	A. Yes.
7	Q. And we established Garofalo is white, correct?	7	Q. And Chabot was elected, correct?
8	A. Yes.	8	A. Yes.
9	Q. And Garofalo was elected in 2004, correct?	9	Q. Okay. In 2015, according to your estimates,
10	A. Yes.	10	Ebert was the highest-ranked candidate amongst white
11	Q. Okay. In 2006 I have your estimates as	11	voters, correct?
12	indicating that Schroeder was the top white-preferred	12	A. Yes.
13	candidate, correct?	13	Q. And Ebert is white, correct?
14	A. Yes.	14	A. Yes.
	Q. Schroeder is white, correct?	15	Q. And Ebert was elected, correct?
15	C. Combodor is write, correct.	l	A. Yes.
15 16	A. Yes.	16	
	•	16	Q. Okay. So if we look at the overall success
16	A. Yes.		Q. Okay. So if we look at the overall success rate of the top-ranked candidate amongst white voters
16 17	A. Yes.Q. And Schroeder was elected, correct?	17	•
16 17 18	A. Yes.Q. And Schroeder was elected, correct?A. Yes.	17 18	rate of the top-ranked candidate amongst white voters
16 17 18 19	A. Yes.Q. And Schroeder was elected, correct?A. Yes.Q. Okay. And in 2009, again, I have Schroeder as	17 18 19	rate of the top-ranked candidate amongst white voters since 2000, accurate to say that 12 out of 12 of the top
16 17 18 19 20	 A. Yes. Q. And Schroeder was elected, correct? A. Yes. Q. Okay. And in 2009, again, I have Schroeder as the top white-preferred candidate, right? 	17 18 19 20	rate of the top-ranked candidate amongst white voters since 2000, accurate to say that 12 out of 12 of the top white-preferred candidates since 2000 were elected?
16 17 18 19 20 21	 A. Yes. Q. And Schroeder was elected, correct? A. Yes. Q. Okay. And in 2009, again, I have Schroeder as the top white-preferred candidate, right? A. Yes. 	17 18 19 20 21	rate of the top-ranked candidate amongst white voters since 2000, accurate to say that 12 out of 12 of the top white-preferred candidates since 2000 were elected? A. Yes.
16 17 18 19 20 21 22	 A. Yes. Q. And Schroeder was elected, correct? A. Yes. Q. Okay. And in 2009, again, I have Schroeder as the top white-preferred candidate, right? A. Yes. Q. And as of 2009, Schroeder was still white, 	17 18 19 20 21 22	rate of the top-ranked candidate amongst white voters since 2000, accurate to say that 12 out of 12 of the top white-preferred candidates since 2000 were elected? A. Yes. Q. And accurate to say that 12 out of 12 of those

	Page 265		Page 267
1	Q. And if we just limit ourselves to the last 10	1	A. Correct.
2	years from the 2006 election on, and we just look at those	2	Q. Butler was not elected, correct?
3	seven elections, the success rate is, of course, the same,	3	A. Correct.
4	seven out of seven, correct?	4	Q. In 2002 Graham received the most votes,
5	A. Yes.	5	according to your estimates, among black voters, correct
6	Q. And if we look at just the last five years,	6	A. Yes.
7	the success rate for white-preferred candidates defined as	7	Q. And Graham is African-American, correct?
8	the top-ranked candidate amongst white voters, success	8	A. I just want to make sure I have this right.
9	rate is five out of five, correct?	9	Yes.
10	A. Yes.	10	Q. And Graham was elected, correct?
11	Q. So using this decision rule that you employ	11	A. Yes.
12	for identifying a preferred candidate, of limiting	12	Q. Okay. In 2003, according to your estimates,
13	ourselves just to the top-ranked candidate amongst those	13	Thomas received the most support amongst black voters,
14	particular voters, the top-ranked white-preferred	14	correct?
15	candidate has always been elected in the	15	A. Yes.
16	Ferguson-Florissant school district dating back to 2000,	16	Q. And Thomas is African-American we established?
17	correct?	17	A. Yes.
18	A. Yes.	18	Q. And Thomas was elected, correct?
19	Q. And that top-ranked candidate amongst white	19	A. Yes.
20	voters has always been white, correct?	20	Q. Okay. In 2004 Van received the most support
21	A. Correct.	21	amongst black voters, according to your estimates,
22	Q. And so everything in the column with respect	22	correct?
23	to white voters in Rodden Exhibit 18 is correct?	23	A. Yes.
24	A. Yes.	24	Q. And Van is African-American, correct?
25	Q. Okay. Let's talk about black voters now and	25	A. Yes.
1	Page 266 their top-ranked candidate. So there's something in here	1	Page 268 Q. Van was not elected, correct?
2	in this header that says top-ranked candidate, whites. I	2	A. Correct.
3	don't that looks like a typo.	3	Q. In 2006 Gwen Thomas, according to your
4	A. Okay.	4	estimates, received the most support amongst black voters
5	Q. Would you just put a line through that?	5	correct?
6	A. Certainly.	6	A. Correct.
7	Q. Thank you. I appreciate that. So what I'm	7	Q. And Gwen Thomas was an incumbent that year,
8	trying to show here is the top-ranked candidates in each	8	correct?
9	election amongst black voters as reported by you in your	9	A. Yes.
10	ecological inference estimates.	10	Q. And Gwen Thomas is African-American?
11	A. Yes.	11	A. Yes.
12	Q. Okay? So let's just run through to make sure	12	Q. And Gwen Thomas was not elected, correct?
13	I have these numbers correct. For 2000 I have Thomas as	13	A. Correct.
14	the top-ranked candidate amongst black voters, according	14	Q. In 2009, according to your estimates, Knowles
15		15	received the highest support amongst black voters,
16	to your estimates, correct? A. Yes.	16	correct?
17	A. Yes. Q. And Thomas is black, correct?	17	A. Yes.
17	A. Yes.	17	
18 19		19	Q. And Knowles is white, correct? A. Correct.
	Q. And Tomas was elected, correct?		
20	A. Yes.	20	Q. And Knowles was elected, correct?
21	Q. Okay. In 2001, according to your estimates,	21	A. Correct.
22	Butler received the most votes amongst black voters,	22	Q. Okay. In 2011 the candidate who received the
23	correct?	23	highest support amongst black voters, according to your
24	A. Correct.	24	estimates, was Graham, correct?
25	Q. And Butler is African-American, correct?	25	A. Yes.

	Page 269		Page 271
1	Q. And Graham was an incumbent that year,	1	majority of the top-ranked black candidates were
2	correct?	2	unsuccessful?
3	A. Correct.	3	A. I want to make sure we're on the same page
4	Q. And Graham is African-American, correct?	4	about 10 years, so
5	A. Correct.	5	Q. Sure.
6	Q. Graham was not elected; is that correct?	6	A you are referring to elections that took
7	A. That is correct. She lost by a very small	7	place since 2000 which year?
8	margin.	8	Q. Starting with 2006.
9	Q. Okay. In 2012 the candidate who received the	9	A. Including 2006?
10	most votes from African-American voters, according to your	10	Q. Yes.
11	estimates, was Barbara Morris, correct?	11	A. Okay. So we've got that is correct.
12	A. Yes, that's right.	12	Q. Okay. And if we just limit ourselves to the
13	Q. And she is African-American, correct?	13	last five years, two out of five of the top-ranked black
14	A. Correct.	14	candidates were successful, correct?
15	Q. And she was not elected, correct?	15	A. That is correct. That's where things get
16	A. Correct.	16	interesting.
17	Q. In 2013 the candidate who received the most	17	Q. So just looking at the last five years, a
18	votes amongst African-Americans, according to your	18	majority of the top-ranked candidates amongst black voters
19	estimates, was Henson, correct?	19	were unsuccessful, correct?
20	A. Correct.	20	A. By a margin of 125 votes, that is true. 125
21	Q. And Henson is African-American, correct?	21	votes the other way and the answer is no, just to be
22	A. Yes.	22	clear.
23	Q. And Henson was not elected, correct?	23	Q. Okay. So the information presented in this
24 25	A. Correct.	25	demonstrative Rodden Exhibit 18 is accurate, correct?
25	Q. Okay. In 2014, according to your estimates,	25	A. It is correct, yes.
	Page 270		Page 272
1	Paulette-Thurman received the most votes from	1	Q. Okay. And just for the record, to close the
2	African-American voters, correct?	2	loop here, of the 12 top-ranked African-American
3	A. Correct.	3	candidates dating back to 2000, only one out of 12 is
4	Q. And Paulette-Thurman is African-American,	4	white, correct? That's Knowles in 2009?
5	correct?	5	A. Correct.
6	A. Correct.	6	Q. I want to switch to discussing something else,
7	Q. And Paulette-Thurman was elected, correct?	7	Dr. Rodden.
8	A. Correct.	8	A. Okay.
9	Q. Okay. So in 2015, last election here,	9	Q. Could we mark that as Rodden Exhibit 19.
10	according to your estimates, Graves received the most	10	(Whereupon, Rodden Deposition Exhibit No. 19
11	votes amongst African-American voters, correct?	11	was marked for identification.)
12	A. Correct.	12	Q. Do you recognize what's been marked as Rodden
13	Q. And Graves is African-American, correct?	13	Exhibit 19?
14 15	A. Yes.	14 15	A. Yes, I do.Q. This is your supplemental report in this case
15 16	Q. And Graves was elected, correct? A. Yes.	16	dated July 2nd, 2015, correct?
17	Q. Okay. So the overall success rate for the	17	A. Yes.
18	top-ranked candidate amongst African-American voters	18	Q. And in this report, among other things, you
19	dating back to 2000 is six out of 12; is that correct?	19	respond to a report from plaintiffs' expert, Dr. Dick
20	A. Yes.	20	Engstrom, correct?
21	Q. And if we just limit ourselves to the success	21	A. Yes.
22	rate over the last 10 years, three out of seven of the	22	Q. And I'm looking at the first page and the
23	top-ranked black candidates were successful, correct?	23	second paragraph, and is it accurate to say that you're
24	A. Correct.	24	expressing the view in this paragraph that in the
25	Q. So fair to say that in the last 10 years a	25	Ferguson-Florissant school district African-Americans are

	Page 273		Page 275
1	more likely to vote for African-American candidates and	1	did in calculating his, but in terms of the point
2	whites are more likely to vote for white candidates?	2	estimates, we get similar rankings and things like this.
3	A. I believe that conclusion is difficult to	3	I'm sure there are some areas of disagreement that we
4	avoid given the exercise we just went through, yes.	4	could talk about perhaps if you like, but on the whole I
5	Q. Given the numbers of your own estimates for	5	think your characterization is correct.
6	candidate support, right, Dr. Rodden, you would agree that	6	Q. So fair to say that although your numbers in
7	African-American voters in the Ferguson-Florissant school	7	terms of ecological inference estimates for candidate
8	district tend to vote for African-American candidates?	8	support are not identical, they are basically consistent
9	A. Oh, yes. I was not disputing those. The last	9	with each other?
10	exercise we did is one that I we have no disagreements	10	A. I think so.
11	about, and indeed, we also saw some scatter plots in the	11	Q. Okay. The difference between your report and
12	initial report showing that there was a correlation.	12	Dr. Engstrom's report then, is it fair to say lies not in
13	Q. A correlation between the race of a voter and	13	the numbers, but in your respective interpretations of the
14	the race of the candidate, right?	14	numbers; is that fair?
15	A. Yes.	15	A. I believe that's fair.
16	Q. So just so the record is clear,	16	Q. Okay. On Page 11 of this report, Paragraph
17	African-American voters are more likely to vote for	17	24, the first sentence you write, "In conclusion,
18	African-American candidates, and white voters are more	18	Professor Engstrom's report is correct in pointing out
19	likely to vote for white candidates in the	19	that the highest-ranked candidate among African-Americans
20	Ferguson-Florissant school board elections, correct?	20	and whites in Ferguson-Florissant School Board elections
21	A. That is correct. The correlation of that kind	21	is often different."
22	would be found in really any jurisdiction in the United	22	Did I read what you wrote accurately?
23	States in which African-American candidates and white	23	A. Yes.
24	candidates are on the ballot and there are	24	Q. And given the exercise that we just undertook,
25	African-Americans and whites in the jurisdiction. I mean	25	it would be appropriate to say, in fact, that the
	The same and thinese in the januarion. The same		
	70 071		
	Page 274		Page 276
1	Page 274 political scientists know this. This is not an unusual	1	Page 276 highest-ranked candidate among African-Americans and
1 2	•	1 2	
	political scientists know this. This is not an unusual		highest-ranked candidate among African-Americans and
2	political scientists know this. This is not an unusual situation. This is a description that we're talking about	2	highest-ranked candidate among African-Americans and whites in the Ferguson-Florissant School Board elections
2	political scientists know this. This is not an unusual situation. This is a description that we're talking about in the United States of American essentially.	2	highest-ranked candidate among African-Americans and whites in the Ferguson-Florissant School Board elections is always different dating back to at least 2000, correct,
2 3 4	political scientists know this. This is not an unusual situation. This is a description that we're talking about in the United States of American essentially. Q. Okay. Now, you've reviewed Dr. Engstrom's	2 3 4	highest-ranked candidate among African-Americans and whites in the Ferguson-Florissant School Board elections is always different dating back to at least 2000, correct, Dr. Rodden?
2 3 4 5	political scientists know this. This is not an unusual situation. This is a description that we're talking about in the United States of American essentially. Q. Okay. Now, you've reviewed Dr. Engstrom's report in this case, correct?	2 3 4 5	highest-ranked candidate among African-Americans and whites in the Ferguson-Florissant School Board elections is always different dating back to at least 2000, correct, Dr. Rodden? A. The top candidate. We're referring to let
2 3 4 5 6	political scientists know this. This is not an unusual situation. This is a description that we're talking about in the United States of American essentially. Q. Okay. Now, you've reviewed Dr. Engstrom's report in this case, correct? A. Yes.	2 3 4 5 6	highest-ranked candidate among African-Americans and whites in the Ferguson-Florissant School Board elections is always different dating back to at least 2000, correct, Dr. Rodden? A. The top candidate. We're referring to let me make sure I read this correctly. Highest-ranked
2 3 4 5 6 7	political scientists know this. This is not an unusual situation. This is a description that we're talking about in the United States of American essentially. Q. Okay. Now, you've reviewed Dr. Engstrom's report in this case, correct? A. Yes. Q. And you've reviewed his ecological inference	2 3 4 5 6 7	highest-ranked candidate among African-Americans and whites in the Ferguson-Florissant School Board elections is always different dating back to at least 2000, correct, Dr. Rodden? A. The top candidate. We're referring to let me make sure I read this correctly. Highest-ranked candidate, yes. That's the exercise we just concluded.
2 3 4 5 6 7 8	political scientists know this. This is not an unusual situation. This is a description that we're talking about in the United States of American essentially. Q. Okay. Now, you've reviewed Dr. Engstrom's report in this case, correct? A. Yes. Q. And you've reviewed his ecological inference estimates for candidate support amongst African-American	2 3 4 5 6 7 8	highest-ranked candidate among African-Americans and whites in the Ferguson-Florissant School Board elections is always different dating back to at least 2000, correct, Dr. Rodden? A. The top candidate. We're referring to let me make sure I read this correctly. Highest-ranked candidate, yes. That's the exercise we just concluded. Q. Right. And I'm talking about Rodden Exhibit
2 3 4 5 6 7 8	political scientists know this. This is not an unusual situation. This is a description that we're talking about in the United States of American essentially. Q. Okay. Now, you've reviewed Dr. Engstrom's report in this case, correct? A. Yes. Q. And you've reviewed his ecological inference estimates for candidate support amongst African-American voters and non-African-American voters in the 2011 through	2 3 4 5 6 7 8	highest-ranked candidate among African-Americans and whites in the Ferguson-Florissant School Board elections is always different dating back to at least 2000, correct, Dr. Rodden? A. The top candidate. We're referring to let me make sure I read this correctly. Highest-ranked candidate, yes. That's the exercise we just concluded. Q. Right. And I'm talking about Rodden Exhibit 18.
2 3 4 5 6 7 8 9	political scientists know this. This is not an unusual situation. This is a description that we're talking about in the United States of American essentially. Q. Okay. Now, you've reviewed Dr. Engstrom's report in this case, correct? A. Yes. Q. And you've reviewed his ecological inference estimates for candidate support amongst African-American voters and non-African-American voters in the 2011 through 2015 elections, correct?	2 3 4 5 6 7 8 9	highest-ranked candidate among African-Americans and whites in the Ferguson-Florissant School Board elections is always different dating back to at least 2000, correct, Dr. Rodden? A. The top candidate. We're referring to let me make sure I read this correctly. Highest-ranked candidate, yes. That's the exercise we just concluded. Q. Right. And I'm talking about Rodden Exhibit 18. A. Yes.
2 3 4 5 6 7 8 9 10	political scientists know this. This is not an unusual situation. This is a description that we're talking about in the United States of American essentially. Q. Okay. Now, you've reviewed Dr. Engstrom's report in this case, correct? A. Yes. Q. And you've reviewed his ecological inference estimates for candidate support amongst African-American voters and non-African-American voters in the 2011 through 2015 elections, correct? A. Yes.	2 3 4 5 6 7 8 9 10	highest-ranked candidate among African-Americans and whites in the Ferguson-Florissant School Board elections is always different dating back to at least 2000, correct, Dr. Rodden? A. The top candidate. We're referring to let me make sure I read this correctly. Highest-ranked candidate, yes. That's the exercise we just concluded. Q. Right. And I'm talking about Rodden Exhibit 18. A. Yes. Q. There's not a single instance in which the top
2 3 4 5 6 7 8 9 10 11	political scientists know this. This is not an unusual situation. This is a description that we're talking about in the United States of American essentially. Q. Okay. Now, you've reviewed Dr. Engstrom's report in this case, correct? A. Yes. Q. And you've reviewed his ecological inference estimates for candidate support amongst African-American voters and non-African-American voters in the 2011 through 2015 elections, correct? A. Yes. Q. You don't dispute his ecological inference	2 3 4 5 6 7 8 9 10 11 12	highest-ranked candidate among African-Americans and whites in the Ferguson-Florissant School Board elections is always different dating back to at least 2000, correct, Dr. Rodden? A. The top candidate. We're referring to let me make sure I read this correctly. Highest-ranked candidate, yes. That's the exercise we just concluded. Q. Right. And I'm talking about Rodden Exhibit 18. A. Yes. Q. There's not a single instance in which the top preferred African-American candidate and the top preferred
2 3 4 5 6 7 8 9 10 11 12 13	political scientists know this. This is not an unusual situation. This is a description that we're talking about in the United States of American essentially. Q. Okay. Now, you've reviewed Dr. Engstrom's report in this case, correct? A. Yes. Q. And you've reviewed his ecological inference estimates for candidate support amongst African-American voters and non-African-American voters in the 2011 through 2015 elections, correct? A. Yes. Q. You don't dispute his ecological inference estimates in your supplemental report here, do you, Dr.	2 3 4 5 6 7 8 9 10 11 12 13	highest-ranked candidate among African-Americans and whites in the Ferguson-Florissant School Board elections is always different dating back to at least 2000, correct, Dr. Rodden? A. The top candidate. We're referring to let me make sure I read this correctly. Highest-ranked candidate, yes. That's the exercise we just concluded. Q. Right. And I'm talking about Rodden Exhibit 18. A. Yes. Q. There's not a single instance in which the top preferred African-American candidate and the top preferred white candidate are the same, correct?
2 3 4 5 6 7 8 9 10 11 12 13	political scientists know this. This is not an unusual situation. This is a description that we're talking about in the United States of American essentially. Q. Okay. Now, you've reviewed Dr. Engstrom's report in this case, correct? A. Yes. Q. And you've reviewed his ecological inference estimates for candidate support amongst African-American voters and non-African-American voters in the 2011 through 2015 elections, correct? A. Yes. Q. You don't dispute his ecological inference estimates in your supplemental report here, do you, Dr. Rodden? I mean you don't say that he's calculated those	2 3 4 5 6 7 8 9 10 11 12 13	highest-ranked candidate among African-Americans and whites in the Ferguson-Florissant School Board elections is always different dating back to at least 2000, correct, Dr. Rodden? A. The top candidate. We're referring to let me make sure I read this correctly. Highest-ranked candidate, yes. That's the exercise we just concluded. Q. Right. And I'm talking about Rodden Exhibit 18. A. Yes. Q. There's not a single instance in which the top preferred African-American candidate and the top preferred white candidate are the same, correct? A. That's correct.
2 3 4 5 6 7 8 9 10 11 12 13 14 15	political scientists know this. This is not an unusual situation. This is a description that we're talking about in the United States of American essentially. Q. Okay. Now, you've reviewed Dr. Engstrom's report in this case, correct? A. Yes. Q. And you've reviewed his ecological inference estimates for candidate support amongst African-American voters and non-African-American voters in the 2011 through 2015 elections, correct? A. Yes. Q. You don't dispute his ecological inference estimates in your supplemental report here, do you, Dr. Rodden? I mean you don't say that he's calculated those estimates incorrectly, do you?	2 3 4 5 6 7 8 9 10 11 12 13 14	highest-ranked candidate among African-Americans and whites in the Ferguson-Florissant School Board elections is always different dating back to at least 2000, correct, Dr. Rodden? A. The top candidate. We're referring to let me make sure I read this correctly. Highest-ranked candidate, yes. That's the exercise we just concluded. Q. Right. And I'm talking about Rodden Exhibit 18. A. Yes. Q. There's not a single instance in which the top preferred African-American candidate and the top preferred white candidate are the same, correct? A. That's correct. Q. Okay. Now, on this page, Page 11, you have a
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	political scientists know this. This is not an unusual situation. This is a description that we're talking about in the United States of American essentially. Q. Okay. Now, you've reviewed Dr. Engstrom's report in this case, correct? A. Yes. Q. And you've reviewed his ecological inference estimates for candidate support amongst African-American voters and non-African-American voters in the 2011 through 2015 elections, correct? A. Yes. Q. You don't dispute his ecological inference estimates in your supplemental report here, do you, Dr. Rodden? I mean you don't say that he's calculated those estimates incorrectly, do you? A. No, and he made a similar statement about	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	highest-ranked candidate among African-Americans and whites in the Ferguson-Florissant School Board elections is always different dating back to at least 2000, correct, Dr. Rodden? A. The top candidate. We're referring to let me make sure I read this correctly. Highest-ranked candidate, yes. That's the exercise we just concluded. Q. Right. And I'm talking about Rodden Exhibit 18. A. Yes. Q. There's not a single instance in which the top preferred African-American candidate and the top preferred white candidate are the same, correct? A. That's correct. Q. Okay. Now, on this page, Page 11, you have a section that begins with the header Other Elections. Do
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	political scientists know this. This is not an unusual situation. This is a description that we're talking about in the United States of American essentially. Q. Okay. Now, you've reviewed Dr. Engstrom's report in this case, correct? A. Yes. Q. And you've reviewed his ecological inference estimates for candidate support amongst African-American voters and non-African-American voters in the 2011 through 2015 elections, correct? A. Yes. Q. You don't dispute his ecological inference estimates in your supplemental report here, do you, Dr. Rodden? I mean you don't say that he's calculated those estimates incorrectly, do you? A. No, and he made a similar statement about mine. We both notice to a degree that is somewhat	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	highest-ranked candidate among African-Americans and whites in the Ferguson-Florissant School Board elections is always different dating back to at least 2000, correct, Dr. Rodden? A. The top candidate. We're referring to let me make sure I read this correctly. Highest-ranked candidate, yes. That's the exercise we just concluded. Q. Right. And I'm talking about Rodden Exhibit 18. A. Yes. Q. There's not a single instance in which the top preferred African-American candidate and the top preferred white candidate are the same, correct? A. That's correct. Q. Okay. Now, on this page, Page 11, you have a section that begins with the header Other Elections. Do you see that?
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	political scientists know this. This is not an unusual situation. This is a description that we're talking about in the United States of American essentially. Q. Okay. Now, you've reviewed Dr. Engstrom's report in this case, correct? A. Yes. Q. And you've reviewed his ecological inference estimates for candidate support amongst African-American voters and non-African-American voters in the 2011 through 2015 elections, correct? A. Yes. Q. You don't dispute his ecological inference estimates in your supplemental report here, do you, Dr. Rodden? I mean you don't say that he's calculated those estimates incorrectly, do you? A. No, and he made a similar statement about mine. We both notice to a degree that is somewhat gratifying, probably for both of us, that the numbers are	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	highest-ranked candidate among African-Americans and whites in the Ferguson-Florissant School Board elections is always different dating back to at least 2000, correct, Dr. Rodden? A. The top candidate. We're referring to let me make sure I read this correctly. Highest-ranked candidate, yes. That's the exercise we just concluded. Q. Right. And I'm talking about Rodden Exhibit 18. A. Yes. Q. There's not a single instance in which the top preferred African-American candidate and the top preferred white candidate are the same, correct? A. That's correct. Q. Okay. Now, on this page, Page 11, you have a section that begins with the header Other Elections. Do you see that? A. Yes.
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	political scientists know this. This is not an unusual situation. This is a description that we're talking about in the United States of American essentially. Q. Okay. Now, you've reviewed Dr. Engstrom's report in this case, correct? A. Yes. Q. And you've reviewed his ecological inference estimates for candidate support amongst African-American voters and non-African-American voters in the 2011 through 2015 elections, correct? A. Yes. Q. You don't dispute his ecological inference estimates in your supplemental report here, do you, Dr. Rodden? I mean you don't say that he's calculated those estimates incorrectly, do you? A. No, and he made a similar statement about mine. We both notice to a degree that is somewhat gratifying, probably for both of us, that the numbers are in the same ball-park. There are some you know, when	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	highest-ranked candidate among African-Americans and whites in the Ferguson-Florissant School Board elections is always different dating back to at least 2000, correct, Dr. Rodden? A. The top candidate. We're referring to let me make sure I read this correctly. Highest-ranked candidate, yes. That's the exercise we just concluded. Q. Right. And I'm talking about Rodden Exhibit 18. A. Yes. Q. There's not a single instance in which the top preferred African-American candidate and the top preferred white candidate are the same, correct? A. That's correct. Q. Okay. Now, on this page, Page 11, you have a section that begins with the header Other Elections. Do you see that? A. Yes. Q. And is it accurate to say that in this section
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	political scientists know this. This is not an unusual situation. This is a description that we're talking about in the United States of American essentially. Q. Okay. Now, you've reviewed Dr. Engstrom's report in this case, correct? A. Yes. Q. And you've reviewed his ecological inference estimates for candidate support amongst African-American voters and non-African-American voters in the 2011 through 2015 elections, correct? A. Yes. Q. You don't dispute his ecological inference estimates in your supplemental report here, do you, Dr. Rodden? I mean you don't say that he's calculated those estimates incorrectly, do you? A. No, and he made a similar statement about mine. We both notice to a degree that is somewhat gratifying, probably for both of us, that the numbers are in the same ball-park. There are some you know, when we get down to questions about confidence intervals, I do	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	highest-ranked candidate among African-Americans and whites in the Ferguson-Florissant School Board elections is always different dating back to at least 2000, correct, Dr. Rodden? A. The top candidate. We're referring to let me make sure I read this correctly. Highest-ranked candidate, yes. That's the exercise we just concluded. Q. Right. And I'm talking about Rodden Exhibit 18. A. Yes. Q. There's not a single instance in which the top preferred African-American candidate and the top preferred white candidate are the same, correct? A. That's correct. Q. Okay. Now, on this page, Page 11, you have a section that begins with the header Other Elections. Do you see that? A. Yes. Q. And is it accurate to say that in this section of your report you examine voting patterns of voters
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	political scientists know this. This is not an unusual situation. This is a description that we're talking about in the United States of American essentially. Q. Okay. Now, you've reviewed Dr. Engstrom's report in this case, correct? A. Yes. Q. And you've reviewed his ecological inference estimates for candidate support amongst African-American voters and non-African-American voters in the 2011 through 2015 elections, correct? A. Yes. Q. You don't dispute his ecological inference estimates in your supplemental report here, do you, Dr. Rodden? I mean you don't say that he's calculated those estimates incorrectly, do you? A. No, and he made a similar statement about mine. We both notice to a degree that is somewhat gratifying, probably for both of us, that the numbers are in the same ball-park. There are some you know, when we get down to questions about confidence intervals, I do recall having some questions, and I don't know I can't	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	highest-ranked candidate among African-Americans and whites in the Ferguson-Florissant School Board elections is always different dating back to at least 2000, correct, Dr. Rodden? A. The top candidate. We're referring to let me make sure I read this correctly. Highest-ranked candidate, yes. That's the exercise we just concluded. Q. Right. And I'm talking about Rodden Exhibit 18. A. Yes. Q. There's not a single instance in which the top preferred African-American candidate and the top preferred white candidate are the same, correct? A. That's correct. Q. Okay. Now, on this page, Page 11, you have a section that begins with the header Other Elections. Do you see that? A. Yes. Q. And is it accurate to say that in this section of your report you examine voting patterns of voters casting ballots at precincts within the
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	political scientists know this. This is not an unusual situation. This is a description that we're talking about in the United States of American essentially. Q. Okay. Now, you've reviewed Dr. Engstrom's report in this case, correct? A. Yes. Q. And you've reviewed his ecological inference estimates for candidate support amongst African-American voters and non-African-American voters in the 2011 through 2015 elections, correct? A. Yes. Q. You don't dispute his ecological inference estimates in your supplemental report here, do you, Dr. Rodden? I mean you don't say that he's calculated those estimates incorrectly, do you? A. No, and he made a similar statement about mine. We both notice to a degree that is somewhat gratifying, probably for both of us, that the numbers are in the same ball-park. There are some you know, when we get down to questions about confidence intervals, I do recall having some questions, and I don't know I can't speak with Engstrom. Perhaps when this case is over, I'll	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	highest-ranked candidate among African-Americans and whites in the Ferguson-Florissant School Board elections is always different dating back to at least 2000, correct, Dr. Rodden? A. The top candidate. We're referring to let me make sure I read this correctly. Highest-ranked candidate, yes. That's the exercise we just concluded. Q. Right. And I'm talking about Rodden Exhibit 18. A. Yes. Q. There's not a single instance in which the top preferred African-American candidate and the top preferred white candidate are the same, correct? A. That's correct. Q. Okay. Now, on this page, Page 11, you have a section that begins with the header Other Elections. Do you see that? A. Yes. Q. And is it accurate to say that in this section of your report you examine voting patterns of voters casting ballots at precincts within the Ferguson-Florissant school district, but for offices other
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	political scientists know this. This is not an unusual situation. This is a description that we're talking about in the United States of American essentially. Q. Okay. Now, you've reviewed Dr. Engstrom's report in this case, correct? A. Yes. Q. And you've reviewed his ecological inference estimates for candidate support amongst African-American voters and non-African-American voters in the 2011 through 2015 elections, correct? A. Yes. Q. You don't dispute his ecological inference estimates in your supplemental report here, do you, Dr. Rodden? I mean you don't say that he's calculated those estimates incorrectly, do you? A. No, and he made a similar statement about mine. We both notice to a degree that is somewhat gratifying, probably for both of us, that the numbers are in the same ball-park. There are some you know, when we get down to questions about confidence intervals, I do recall having some questions, and I don't know I can't speak with Engstrom. Perhaps when this case is over, I'll get a chance.	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	highest-ranked candidate among African-Americans and whites in the Ferguson-Florissant School Board elections is always different dating back to at least 2000, correct, Dr. Rodden? A. The top candidate. We're referring to let me make sure I read this correctly. Highest-ranked candidate, yes. That's the exercise we just concluded. Q. Right. And I'm talking about Rodden Exhibit 18. A. Yes. Q. There's not a single instance in which the top preferred African-American candidate and the top preferred white candidate are the same, correct? A. That's correct. Q. Okay. Now, on this page, Page 11, you have a section that begins with the header Other Elections. Do you see that? A. Yes. Q. And is it accurate to say that in this section of your report you examine voting patterns of voters casting ballots at precincts within the Ferguson-Florissant school district, but for offices other than the Ferguson-Florissant School Board?

	Page 277		Page 279
1	Q. And these are what I think we used this	1	seemed to be coming to an agreement that all of those
2	term before, what we would call exogenous elections,	2	approaches had flaws, and I try to be very up-front in my
3	correct?	3	initial report about what those flaws are. And I do
4	A. Yes.	4	regret the whatever error it was that caused me to say
5	Q. And your initial report looked only at	5	13 instead of 14 or whatever it was in that report.
6	endogenous elections, the elections for the offices at	6	But when I count up those those I don't
7	issue in this litigation, correct?	7	have a whole lot of confidence in the counting exercises
8	A. Yes.	8	that we were just we were just looking at, because each
9	Q. And you would agree, wouldn't you, that	9	of these elections has so many different features that
10	endogenous elections are more probative in terms of	10	make that causal inference problem really large, and so
11	understanding whether or not voting in the	11	this is why I wanted to find something simpler. I wanted
12	Ferguson-Florissant School Board elections is racially	12	to find something that we could get our hands around that
13	polarized?	13	might allow us to answer that question in a more
14	A. I'm not sure. That is something that will	14	straightforward way.
15	have to be left to the Court to decide. I understand why	15	Q. Now, this approach also has drawbacks, you
16	it would seem, on first glance, like that is the case, but	16	would agree with me, right, Dr. Rodden?
17	I am afraid that there is a there is some of the	17	A. Yes.
18	issues we were just discussing are very are vexing, and	18	Q. Because voting behavior for offices that cover
19	the way in which the number of candidates running and the	19	jurisdictions that are larger than the Ferguson-Florissant
20	way in which the number of candidates running from each	20	school district might differ from voting behavior in the
21	racial group affects the outcome of the exercises we were	21	Ferguson-Florissant School Board elections themselves,
22	just working our way through, does make me think that it's	22	correct?
23	difficult for the Court to wade through that.	23	A. Yes.
24	If the question is simply about whether, based	24	Q. For instance, it may be the case that voting
25	on the demography and the electoral rules and patterns of	25	is not racially polarized with respect to presidential
			n 200
	Page 278		Page 280
1	electoral behavior, we can infer that white voters	1	elections in the Ferguson-Florissant school district, but
2	systematically block the choices of African-American	2	
3		١ .	could be racially polarized with respect to
	voters, then this is a very useful undertaking. So	3	Ferguson-Florissant School Board elections because the
4	whether the Court would decide that this was less	4	Ferguson-Florissant School Board elections because the issues and offices are different, correct, Dr. Rodden?
5	whether the Court would decide that this was less probative, the information is all there and the Court has	4 5	Ferguson-Florissant School Board elections because the issues and offices are different, correct, Dr. Rodden? A. That is possible.
5	whether the Court would decide that this was less probative, the information is all there and the Court has what it needs to make that decision. I don't need to	4 5 6	Ferguson-Florissant School Board elections because the issues and offices are different, correct, Dr. Rodden? A. That is possible. Q. Okay. Now, on Page 14 in your report, Table 1
5 6 7	whether the Court would decide that this was less probative, the information is all there and the Court has what it needs to make that decision. I don't need to issue a legal opinion about that.	4 5 6 7	Ferguson-Florissant School Board elections because the issues and offices are different, correct, Dr. Rodden? A. That is possible. Q. Okay. Now, on Page 14 in your report, Table 1 which you just turned to, these are all of the exogenous
5 6 7 8	whether the Court would decide that this was less probative, the information is all there and the Court has what it needs to make that decision. I don't need to issue a legal opinion about that. Q. When you first approached the question of	4 5 6 7 8	Ferguson-Florissant School Board elections because the issues and offices are different, correct, Dr. Rodden? A. That is possible. Q. Okay. Now, on Page 14 in your report, Table 1 which you just turned to, these are all of the exogenous elections that you examined, correct?
5 6 7 8 9	whether the Court would decide that this was less probative, the information is all there and the Court has what it needs to make that decision. I don't need to issue a legal opinion about that. Q. When you first approached the question of racially polarized voting patterns in Ferguson-Florissant	4 5 6 7 8 9	Ferguson-Florissant School Board elections because the issues and offices are different, correct, Dr. Rodden? A. That is possible. Q. Okay. Now, on Page 14 in your report, Table 1 which you just turned to, these are all of the exogenous elections that you examined, correct? A. Yes.
5 6 7 8 9	whether the Court would decide that this was less probative, the information is all there and the Court has what it needs to make that decision. I don't need to issue a legal opinion about that. Q. When you first approached the question of racially polarized voting patterns in Ferguson-Florissant School Board elections in your initial report, you looked	4 5 6 7 8 9	Ferguson-Florissant School Board elections because the issues and offices are different, correct, Dr. Rodden? A. That is possible. Q. Okay. Now, on Page 14 in your report, Table 1 which you just turned to, these are all of the exogenous elections that you examined, correct? A. Yes. Q. And there are 12 elections here, correct?
5 6 7 8 9 10 11	whether the Court would decide that this was less probative, the information is all there and the Court has what it needs to make that decision. I don't need to issue a legal opinion about that. Q. When you first approached the question of racially polarized voting patterns in Ferguson-Florissant School Board elections in your initial report, you looked only at Ferguson-Florissant School Board elections,	4 5 6 7 8 9 10	Ferguson-Florissant School Board elections because the issues and offices are different, correct, Dr. Rodden? A. That is possible. Q. Okay. Now, on Page 14 in your report, Table 1 which you just turned to, these are all of the exogenous elections that you examined, correct? A. Yes. Q. And there are 12 elections here, correct? A. Yes.
5 6 7 8 9 10 11	whether the Court would decide that this was less probative, the information is all there and the Court has what it needs to make that decision. I don't need to issue a legal opinion about that. Q. When you first approached the question of racially polarized voting patterns in Ferguson-Florissant School Board elections in your initial report, you looked only at Ferguson-Florissant School Board elections, correct?	4 5 6 7 8 9 10 11 12	Ferguson-Florissant School Board elections because the issues and offices are different, correct, Dr. Rodden? A. That is possible. Q. Okay. Now, on Page 14 in your report, Table 1 which you just turned to, these are all of the exogenous elections that you examined, correct? A. Yes. Q. And there are 12 elections here, correct? A. Yes. Q. And you show that in these 12 elections black
5 6 7 8 9 10 11 12	whether the Court would decide that this was less probative, the information is all there and the Court has what it needs to make that decision. I don't need to issue a legal opinion about that. Q. When you first approached the question of racially polarized voting patterns in Ferguson-Florissant School Board elections in your initial report, you looked only at Ferguson-Florissant School Board elections, correct? A. Yes.	4 5 6 7 8 9 10 11 12 13	Ferguson-Florissant School Board elections because the issues and offices are different, correct, Dr. Rodden? A. That is possible. Q. Okay. Now, on Page 14 in your report, Table 1 which you just turned to, these are all of the exogenous elections that you examined, correct? A. Yes. Q. And there are 12 elections here, correct? A. Yes. Q. And you show that in these 12 elections black candidates received more votes than white candidates from
5 6 7 8 9 10 11 12 13 14	whether the Court would decide that this was less probative, the information is all there and the Court has what it needs to make that decision. I don't need to issue a legal opinion about that. Q. When you first approached the question of racially polarized voting patterns in Ferguson-Florissant School Board elections in your initial report, you looked only at Ferguson-Florissant School Board elections, correct? A. Yes. Q. So correct to say that your first instinct as	4 5 6 7 8 9 10 11 12	Ferguson-Florissant School Board elections because the issues and offices are different, correct, Dr. Rodden? A. That is possible. Q. Okay. Now, on Page 14 in your report, Table 1 which you just turned to, these are all of the exogenous elections that you examined, correct? A. Yes. Q. And there are 12 elections here, correct? A. Yes. Q. And you show that in these 12 elections black candidates received more votes than white candidates from precincts within the Ferguson-Florissant school district
5 6 7 8 9 10 11 12 13 14	whether the Court would decide that this was less probative, the information is all there and the Court has what it needs to make that decision. I don't need to issue a legal opinion about that. Q. When you first approached the question of racially polarized voting patterns in Ferguson-Florissant School Board elections in your initial report, you looked only at Ferguson-Florissant School Board elections, correct? A. Yes. Q. So correct to say that your first instinct as a political scientist, in trying to assess the question of	4 5 6 7 8 9 10 11 12 13 14	Ferguson-Florissant School Board elections because the issues and offices are different, correct, Dr. Rodden? A. That is possible. Q. Okay. Now, on Page 14 in your report, Table 1 which you just turned to, these are all of the exogenous elections that you examined, correct? A. Yes. Q. And there are 12 elections here, correct? A. Yes. Q. And you show that in these 12 elections black candidates received more votes than white candidates from precincts within the Ferguson-Florissant school district in these exogenous elections, correct?
5 6 7 8 9 10 11 12 13 14 15	whether the Court would decide that this was less probative, the information is all there and the Court has what it needs to make that decision. I don't need to issue a legal opinion about that. Q. When you first approached the question of racially polarized voting patterns in Ferguson-Florissant School Board elections in your initial report, you looked only at Ferguson-Florissant School Board elections, correct? A. Yes. Q. So correct to say that your first instinct as a political scientist, in trying to assess the question of whether or not voting in the Ferguson-Florissant school	4 5 6 7 8 9 10 11 12 13 14	Ferguson-Florissant School Board elections because the issues and offices are different, correct, Dr. Rodden? A. That is possible. Q. Okay. Now, on Page 14 in your report, Table 1 which you just turned to, these are all of the exogenous elections that you examined, correct? A. Yes. Q. And there are 12 elections here, correct? A. Yes. Q. And you show that in these 12 elections black candidates received more votes than white candidates from precincts within the Ferguson-Florissant school district in these exogenous elections, correct? A. Correct.
5 6 7 8 9 10 11 12 13 14	whether the Court would decide that this was less probative, the information is all there and the Court has what it needs to make that decision. I don't need to issue a legal opinion about that. Q. When you first approached the question of racially polarized voting patterns in Ferguson-Florissant School Board elections in your initial report, you looked only at Ferguson-Florissant School Board elections, correct? A. Yes. Q. So correct to say that your first instinct as a political scientist, in trying to assess the question of	4 5 6 7 8 9 10 11 12 13 14 15	Ferguson-Florissant School Board elections because the issues and offices are different, correct, Dr. Rodden? A. That is possible. Q. Okay. Now, on Page 14 in your report, Table 1 which you just turned to, these are all of the exogenous elections that you examined, correct? A. Yes. Q. And there are 12 elections here, correct? A. Yes. Q. And you show that in these 12 elections black candidates received more votes than white candidates from precincts within the Ferguson-Florissant school district in these exogenous elections, correct?
5 6 7 8 9 10 11 12 13 14 15 16	whether the Court would decide that this was less probative, the information is all there and the Court has what it needs to make that decision. I don't need to issue a legal opinion about that. Q. When you first approached the question of racially polarized voting patterns in Ferguson-Florissant School Board elections in your initial report, you looked only at Ferguson-Florissant School Board elections, correct? A. Yes. Q. So correct to say that your first instinct as a political scientist, in trying to assess the question of whether or not voting in the Ferguson-Florissant school district is racially polarized, was to look at endogenous	4 5 6 7 8 9 10 11 12 13 14 15 16	Ferguson-Florissant School Board elections because the issues and offices are different, correct, Dr. Rodden? A. That is possible. Q. Okay. Now, on Page 14 in your report, Table 1 which you just turned to, these are all of the exogenous elections that you examined, correct? A. Yes. Q. And there are 12 elections here, correct? A. Yes. Q. And you show that in these 12 elections black candidates received more votes than white candidates from precincts within the Ferguson-Florissant school district in these exogenous elections, correct? A. Correct. Q. And when you examined exogenous elections, you
5 6 7 8 9 10 11 12 13 14 15 16 17	whether the Court would decide that this was less probative, the information is all there and the Court has what it needs to make that decision. I don't need to issue a legal opinion about that. Q. When you first approached the question of racially polarized voting patterns in Ferguson-Florissant School Board elections in your initial report, you looked only at Ferguson-Florissant School Board elections, correct? A. Yes. Q. So correct to say that your first instinct as a political scientist, in trying to assess the question of whether or not voting in the Ferguson-Florissant school district is racially polarized, was to look at endogenous elections?	4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	Ferguson-Florissant School Board elections because the issues and offices are different, correct, Dr. Rodden? A. That is possible. Q. Okay. Now, on Page 14 in your report, Table 1 which you just turned to, these are all of the exogenous elections that you examined, correct? A. Yes. Q. And there are 12 elections here, correct? A. Yes. Q. And you show that in these 12 elections black candidates received more votes than white candidates from precincts within the Ferguson-Florissant school district in these exogenous elections, correct? A. Correct. Q. And when you examined exogenous elections, you looked only at biracial contests, correct?
5 6 7 8 9 10 11 12 13 14 15 16 17 18	whether the Court would decide that this was less probative, the information is all there and the Court has what it needs to make that decision. I don't need to issue a legal opinion about that. Q. When you first approached the question of racially polarized voting patterns in Ferguson-Florissant School Board elections in your initial report, you looked only at Ferguson-Florissant School Board elections, correct? A. Yes. Q. So correct to say that your first instinct as a political scientist, in trying to assess the question of whether or not voting in the Ferguson-Florissant school district is racially polarized, was to look at endogenous elections? A. That was indeed my first instinct, and the	4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	Ferguson-Florissant School Board elections because the issues and offices are different, correct, Dr. Rodden? A. That is possible. Q. Okay. Now, on Page 14 in your report, Table 1 which you just turned to, these are all of the exogenous elections that you examined, correct? A. Yes. Q. And there are 12 elections here, correct? A. Yes. Q. And you show that in these 12 elections black candidates received more votes than white candidates from precincts within the Ferguson-Florissant school district in these exogenous elections, correct? A. Correct. Q. And when you examined exogenous elections, you looked only at biracial contests, correct? A. Yes.
5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	whether the Court would decide that this was less probative, the information is all there and the Court has what it needs to make that decision. I don't need to issue a legal opinion about that. Q. When you first approached the question of racially polarized voting patterns in Ferguson-Florissant School Board elections in your initial report, you looked only at Ferguson-Florissant School Board elections, correct? A. Yes. Q. So correct to say that your first instinct as a political scientist, in trying to assess the question of whether or not voting in the Ferguson-Florissant school district is racially polarized, was to look at endogenous elections? A. That was indeed my first instinct, and the more I grappled with the difficulty of the causal	4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	Ferguson-Florissant School Board elections because the issues and offices are different, correct, Dr. Rodden? A. That is possible. Q. Okay. Now, on Page 14 in your report, Table 1 which you just turned to, these are all of the exogenous elections that you examined, correct? A. Yes. Q. And there are 12 elections here, correct? A. Yes. Q. And you show that in these 12 elections black candidates received more votes than white candidates from precincts within the Ferguson-Florissant school district in these exogenous elections, correct? A. Correct. Q. And when you examined exogenous elections, you looked only at biracial contests, correct? A. Yes. Q. Elections that involved one black candidate
5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	whether the Court would decide that this was less probative, the information is all there and the Court has what it needs to make that decision. I don't need to issue a legal opinion about that. Q. When you first approached the question of racially polarized voting patterns in Ferguson-Florissant School Board elections in your initial report, you looked only at Ferguson-Florissant School Board elections, correct? A. Yes. Q. So correct to say that your first instinct as a political scientist, in trying to assess the question of whether or not voting in the Ferguson-Florissant school district is racially polarized, was to look at endogenous elections? A. That was indeed my first instinct, and the more I grappled with the difficulty of the causal inference problem associated with multi-winner elections	4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	Ferguson-Florissant School Board elections because the issues and offices are different, correct, Dr. Rodden? A. That is possible. Q. Okay. Now, on Page 14 in your report, Table 1 which you just turned to, these are all of the exogenous elections that you examined, correct? A. Yes. Q. And there are 12 elections here, correct? A. Yes. Q. And you show that in these 12 elections black candidates received more votes than white candidates from precincts within the Ferguson-Florissant school district in these exogenous elections, correct? A. Correct. Q. And when you examined exogenous elections, you looked only at biracial contests, correct? A. Yes. Q. Elections that involved one black candidate and one white candidate, correct?
5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	whether the Court would decide that this was less probative, the information is all there and the Court has what it needs to make that decision. I don't need to issue a legal opinion about that. Q. When you first approached the question of racially polarized voting patterns in Ferguson-Florissant School Board elections in your initial report, you looked only at Ferguson-Florissant School Board elections, correct? A. Yes. Q. So correct to say that your first instinct as a political scientist, in trying to assess the question of whether or not voting in the Ferguson-Florissant school district is racially polarized, was to look at endogenous elections? A. That was indeed my first instinct, and the more I grappled with the difficulty of the causal inference problem associated with multi-winner elections when there are different numbers of candidates running	4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	Ferguson-Florissant School Board elections because the issues and offices are different, correct, Dr. Rodden? A. That is possible. Q. Okay. Now, on Page 14 in your report, Table 1 which you just turned to, these are all of the exogenous elections that you examined, correct? A. Yes. Q. And there are 12 elections here, correct? A. Yes. Q. And you show that in these 12 elections black candidates received more votes than white candidates from precincts within the Ferguson-Florissant school district in these exogenous elections, correct? A. Correct. Q. And when you examined exogenous elections, you looked only at biracial contests, correct? A. Yes. Q. Elections that involved one black candidate and one white candidate, correct? A. Yes.
5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	whether the Court would decide that this was less probative, the information is all there and the Court has what it needs to make that decision. I don't need to issue a legal opinion about that. Q. When you first approached the question of racially polarized voting patterns in Ferguson-Florissant School Board elections in your initial report, you looked only at Ferguson-Florissant School Board elections, correct? A. Yes. Q. So correct to say that your first instinct as a political scientist, in trying to assess the question of whether or not voting in the Ferguson-Florissant school district is racially polarized, was to look at endogenous elections? A. That was indeed my first instinct, and the more I grappled with the difficulty of the causal inference problem associated with multi-winner elections when there are different numbers of candidates running from each racial group in each election, the more I	4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	Ferguson-Florissant School Board elections because the issues and offices are different, correct, Dr. Rodden? A. That is possible. Q. Okay. Now, on Page 14 in your report, Table 1 which you just turned to, these are all of the exogenous elections that you examined, correct? A. Yes. Q. And there are 12 elections here, correct? A. Yes. Q. And you show that in these 12 elections black candidates received more votes than white candidates from precincts within the Ferguson-Florissant school district in these exogenous elections, correct? A. Correct. Q. And when you examined exogenous elections, you looked only at biracial contests, correct? A. Yes. Q. Elections that involved one black candidate and one white candidate, correct? A. Yes. Q. You didn't include in your analysis of

	Page 281		Page 283
1	Q. Is that because, in your view, biracial	1 A. Given longer deadlines for the reports in t	his
2	contests are more probative than mono-racial contests in	2 case, absolutely.	
3	terms of assessing racial polarization?	3 Q. But you didn't in this case, right?	
4	A. It was based on my reading of of the	4 A. I, in truth, did this analysis at you know	<i>I</i> ,
5	Gingles decision and previous case law, which admittedly	as these things came together, this is the last thing	j I
6	is limited as a political scientist as a non-lawyer. That	6 did before the deadline, so I had no time to go any	,
7	was my understanding of the way exogenous races had been	7 further.	
8	used in other cases, and it's possible that I'm missing	8 Q. But based on what we have here, the	ere's no
9	some important cases, but that was my impression, that	9 information here that tells us the respective	levels of
10	these are generally considered useful in conditions in	candidate support the respective levels of	support that
11	which there are candidates of each race running and that	11 these candidates received amongst voters of	different
12	is those are the conditions that were mentioned in the	12 races, correct?	
13	Gingles decision.	13 A. That's correct.	
14	Q. Well, just as a political scientist, if you're	Q. Now, of these 12 elections, correct m	ne if I'm
15	trying to assess levels of racial polarization, is it your	wrong, Dr. Rodden, but the black candidate i	s an incumbent
16	view that biracial contests are more probative of that	in 10 of them; is that correct?	
17	question than mono-racial ones?	17 A. We'll have to go through these.	
18	A. I wasn't trying to assess racial polarization.	18 Q. Sure .	
19	That was not the point of Table 1.	19 A. So 2008 Barack Obama-Hillary Clinton, no	
20	Q. Okay. So to be clear, Table 1 is not a racial	200 2008 Barack Obama-John McCain, no. 2008 Lacy (Clay, yes.
21	polarization analysis?	21 2010 Charlie Dooley, I'm not sure I remember wha	t year
22	A. No.	Dooley was originally elected.	
23	Q. Correct, Dr. Rodden?	MS. ORMSBY: He was an incumbent.	
24	A. That's correct.	A. In 2010 he was, okay. And then we just	have
25	Q. Okay.	25 the we have the primary and the general, so s	so we
	Page 282		D 201
	6		Page 284
1	_	1 have we have several Clav elections indeed, an	•
1 2	A. It is an analysis of the proposition that is	 have we have several Clay elections indeed, ar is an incumbent in 2012. Dooley in 2014 and y 	nd Obama
1 2 3	A. It is an analysis of the proposition that is central to the Gingles decision, which is that the	2 is an incumbent in 2012. Dooley in 2014 and y	nd Obama yes. So
2	A. It is an analysis of the proposition that is	2 is an incumbent in 2012. Dooley in 2014 and y	nd Obama yes. So s.
2	A. It is an analysis of the proposition that is central to the Gingles decision, which is that the majority group, by virtue of its status as a majority,	is an incumbent in 2012. Dooley in 2014 and y we do have some a number of incumbents, yes	nd Obama yes. So s. out of
2 3 4	A. It is an analysis of the proposition that is central to the Gingles decision, which is that the majority group, by virtue of its status as a majority, with the application of the electoral rules at hand,	2 is an incumbent in 2012. Dooley in 2014 and y 3 we do have some a number of incumbents, yes 4 Q. So just so the record is clear, in 10	nd Obama yes. So s. out of
2 3 4 5	A. It is an analysis of the proposition that is central to the Gingles decision, which is that the majority group, by virtue of its status as a majority, with the application of the electoral rules at hand, blocks the I'm sorry prevents the minority from	is an incumbent in 2012. Dooley in 2014 and y we do have some a number of incumbents, yes Q. So just so the record is clear, in 10 12 of the exogenous elections that you pres	nd Obama yes. So s. out of
2 3 4 5 6	A. It is an analysis of the proposition that is central to the Gingles decision, which is that the majority group, by virtue of its status as a majority, with the application of the electoral rules at hand, blocks the I'm sorry prevents the minority from electing the candidate of its choice. So if the candidate	is an incumbent in 2012. Dooley in 2014 and y we do have some a number of incumbents, yes Q. So just so the record is clear, in 10 12 of the exogenous elections that you pres black candidate is an incumbent, correct?	nd Obama yes. So s. out of sent here, the
2 3 4 5 6 7	A. It is an analysis of the proposition that is central to the Gingles decision, which is that the majority group, by virtue of its status as a majority, with the application of the electoral rules at hand, blocks the I'm sorry prevents the minority from electing the candidate of its choice. So if the candidate of choosing for minorities wins 100 percent of the time, I	is an incumbent in 2012. Dooley in 2014 and y we do have some a number of incumbents, yes Q. So just so the record is clear, in 10 12 of the exogenous elections that you pres black candidate is an incumbent, correct? A. Yes.	nd Obama yes. So s. out of sent here, the
2 3 4 5 6 7 8	A. It is an analysis of the proposition that is central to the Gingles decision, which is that the majority group, by virtue of its status as a majority, with the application of the electoral rules at hand, blocks the I'm sorry prevents the minority from electing the candidate of its choice. So if the candidate of choosing for minorities wins 100 percent of the time, I find that to be very interesting, very useful, something	is an incumbent in 2012. Dooley in 2014 and y we do have some a number of incumbents, yet Q. So just so the record is clear, in 10 12 of the exogenous elections that you pres black candidate is an incumbent, correct? A. Yes. Q. Okay. Of the two elections featuring	nd Obama yes. So s. out of sent here, the
2 3 4 5 6 7 8	A. It is an analysis of the proposition that is central to the Gingles decision, which is that the majority group, by virtue of its status as a majority, with the application of the electoral rules at hand, blocks the I'm sorry prevents the minority from electing the candidate of its choice. So if the candidate of choosing for minorities wins 100 percent of the time, I find that to be very interesting, very useful, something the Court would want to know.	is an incumbent in 2012. Dooley in 2014 and y we do have some a number of incumbents, yet Q. So just so the record is clear, in 10 12 of the exogenous elections that you pres black candidate is an incumbent, correct? A. Yes. Q. Okay. Of the two elections featurin non-incumbent black candidates, one was a	d Obama yes. So s. out of sent here, the a primary, a eneral featuring
2 3 4 5 6 7 8 9	A. It is an analysis of the proposition that is central to the Gingles decision, which is that the majority group, by virtue of its status as a majority, with the application of the electoral rules at hand, blocks the I'm sorry prevents the minority from electing the candidate of its choice. So if the candidate of choosing for minorities wins 100 percent of the time, I find that to be very interesting, very useful, something the Court would want to know. Q. But as you said, this is not a racial	is an incumbent in 2012. Dooley in 2014 and y we do have some a number of incumbents, yet Q. So just so the record is clear, in 10 12 of the exogenous elections that you pres black candidate is an incumbent, correct? A. Yes. Q. Okay. Of the two elections featurin non-incumbent black candidates, one was a democratic primary, and the other was a get	d Obama yes. So s. out of sent here, the a primary, a eneral featuring
2 3 4 5 6 7 8 9 10	A. It is an analysis of the proposition that is central to the Gingles decision, which is that the majority group, by virtue of its status as a majority, with the application of the electoral rules at hand, blocks the I'm sorry prevents the minority from electing the candidate of its choice. So if the candidate of choosing for minorities wins 100 percent of the time, I find that to be very interesting, very useful, something the Court would want to know. Q. But as you said, this is not a racial polarization analysis. Dr. Rodden, you do not, in this	is an incumbent in 2012. Dooley in 2014 and y we do have some a number of incumbents, yes Q. So just so the record is clear, in 10 12 of the exogenous elections that you pres black candidate is an incumbent, correct? A. Yes. Q. Okay. Of the two elections featurin non-incumbent black candidates, one was a democratic primary, and the other was a ge a democratic candidate against a republican	d Obama yes. So s. out of sent here, the a primary, a eneral featuring
2 3 4 5 6 7 8 9 10 11	A. It is an analysis of the proposition that is central to the Gingles decision, which is that the majority group, by virtue of its status as a majority, with the application of the electoral rules at hand, blocks the I'm sorry prevents the minority from electing the candidate of its choice. So if the candidate of choosing for minorities wins 100 percent of the time, I find that to be very interesting, very useful, something the Court would want to know. Q. But as you said, this is not a racial polarization analysis. Dr. Rodden, you do not, in this analysis, provide estimates of candidate support by race;	is an incumbent in 2012. Dooley in 2014 and y we do have some a number of incumbents, yet Q. So just so the record is clear, in 10 12 of the exogenous elections that you pres black candidate is an incumbent, correct? A. Yes. Q. Okay. Of the two elections featurin non-incumbent black candidates, one was a democratic primary, and the other was a ge a democratic candidate against a republican correct?	ad Obama yes. So s. out of sent here, the ag a primary, a eneral featuring n candidate,
2 3 4 5 6 7 8 9 10 11 12 13	A. It is an analysis of the proposition that is central to the Gingles decision, which is that the majority group, by virtue of its status as a majority, with the application of the electoral rules at hand, blocks the I'm sorry prevents the minority from electing the candidate of its choice. So if the candidate of choosing for minorities wins 100 percent of the time, I find that to be very interesting, very useful, something the Court would want to know. Q. But as you said, this is not a racial polarization analysis. Dr. Rodden, you do not, in this analysis, provide estimates of candidate support by race; is that correct?	is an incumbent in 2012. Dooley in 2014 and y we do have some a number of incumbents, yet Q. So just so the record is clear, in 10 12 of the exogenous elections that you pres black candidate is an incumbent, correct? A. Yes. Q. Okay. Of the two elections featurin non-incumbent black candidates, one was a democratic primary, and the other was a ge a democratic candidate against a republicat correct? A. Correct.	ad Obama yes. So s. out of sent here, the ag a primary, a eneral featuring n candidate,
2 3 4 5 6 7 8 9 10 11 12 13	A. It is an analysis of the proposition that is central to the Gingles decision, which is that the majority group, by virtue of its status as a majority, with the application of the electoral rules at hand, blocks the I'm sorry prevents the minority from electing the candidate of its choice. So if the candidate of choosing for minorities wins 100 percent of the time, I find that to be very interesting, very useful, something the Court would want to know. Q. But as you said, this is not a racial polarization analysis. Dr. Rodden, you do not, in this analysis, provide estimates of candidate support by race; is that correct? A. That's correct.	is an incumbent in 2012. Dooley in 2014 and y we do have some a number of incumbents, yet Q. So just so the record is clear, in 10 12 of the exogenous elections that you pres black candidate is an incumbent, correct? A. Yes. Q. Okay. Of the two elections featurin non-incumbent black candidates, one was a democratic primary, and the other was a ge a democratic candidate against a republicat correct? A. Correct. Q. Now, you would agree, as a political	ad Obama yes. So s. out of sent here, the ag a primary, a eneral featuring n candidate,
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	A. It is an analysis of the proposition that is central to the Gingles decision, which is that the majority group, by virtue of its status as a majority, with the application of the electoral rules at hand, blocks the I'm sorry prevents the minority from electing the candidate of its choice. So if the candidate of choosing for minorities wins 100 percent of the time, I find that to be very interesting, very useful, something the Court would want to know. Q. But as you said, this is not a racial polarization analysis. Dr. Rodden, you do not, in this analysis, provide estimates of candidate support by race; is that correct? A. That's correct. Q. This is not like the ecological inference estimates that you provided in your initial report for the Ferguson-Florissant school district elections, correct?	is an incumbent in 2012. Dooley in 2014 and y we do have some a number of incumbents, yet Q. So just so the record is clear, in 10 12 of the exogenous elections that you pres black candidate is an incumbent, correct? A. Yes. Q. Okay. Of the two elections featurin non-incumbent black candidates, one was a democratic primary, and the other was a ge a democratic candidate against a republicat correct? A. Correct. Q. Now, you would agree, as a political scientist, that the St. Louis metro area cons primarily of democratic voters, correct? A. Yes.	ad Obama yes. So s. out of sent here, the ag a primary, a eneral featuring n candidate,
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	A. It is an analysis of the proposition that is central to the Gingles decision, which is that the majority group, by virtue of its status as a majority, with the application of the electoral rules at hand, blocks the I'm sorry prevents the minority from electing the candidate of its choice. So if the candidate of choosing for minorities wins 100 percent of the time, I find that to be very interesting, very useful, something the Court would want to know. Q. But as you said, this is not a racial polarization analysis. Dr. Rodden, you do not, in this analysis, provide estimates of candidate support by race; is that correct? A. That's correct. Q. This is not like the ecological inference estimates that you provided in your initial report for the Ferguson-Florissant school district elections, correct? A. There is no ecological inference analysis	is an incumbent in 2012. Dooley in 2014 and y we do have some a number of incumbents, yes Q. So just so the record is clear, in 10 12 of the exogenous elections that you pres black candidate is an incumbent, correct? A. Yes. Q. Okay. Of the two elections featurin non-incumbent black candidates, one was a democratic primary, and the other was a ge a democratic candidate against a republicat correct? A. Correct. Q. Now, you would agree, as a political scientist, that the St. Louis metro area cons primarily of democratic voters, correct? A. Yes. Q. So there's only one election here out	ad Obama yes. So s. out of sent here, the ag a primary, a eneral featuring n candidate, all sists
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	A. It is an analysis of the proposition that is central to the Gingles decision, which is that the majority group, by virtue of its status as a majority, with the application of the electoral rules at hand, blocks the I'm sorry prevents the minority from electing the candidate of its choice. So if the candidate of choosing for minorities wins 100 percent of the time, I find that to be very interesting, very useful, something the Court would want to know. Q. But as you said, this is not a racial polarization analysis. Dr. Rodden, you do not, in this analysis, provide estimates of candidate support by race; is that correct? A. That's correct. Q. This is not like the ecological inference estimates that you provided in your initial report for the Ferguson-Florissant school district elections, correct? A. There is no ecological inference analysis being conducted here, no.	is an incumbent in 2012. Dooley in 2014 and y we do have some a number of incumbents, yet Q. So just so the record is clear, in 10 12 of the exogenous elections that you pres black candidate is an incumbent, correct? A. Yes. Q. Okay. Of the two elections featurin non-incumbent black candidates, one was a democratic primary, and the other was a ge a democratic candidate against a republical correct? A. Correct. Q. Now, you would agree, as a political scientist, that the St. Louis metro area cons primarily of democratic voters, correct? A. Yes. Q. So there's only one election here ou 12 that was a partisan contest of a democratic	ad Obama yes. So s. out of sent here, the ag a primary, a eneral featuring in candidate, al sists at of these at versus a
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	A. It is an analysis of the proposition that is central to the Gingles decision, which is that the majority group, by virtue of its status as a majority, with the application of the electoral rules at hand, blocks the I'm sorry prevents the minority from electing the candidate of its choice. So if the candidate of choosing for minorities wins 100 percent of the time, I find that to be very interesting, very useful, something the Court would want to know. Q. But as you said, this is not a racial polarization analysis. Dr. Rodden, you do not, in this analysis, provide estimates of candidate support by race; is that correct? A. That's correct. Q. This is not like the ecological inference estimates that you provided in your initial report for the Ferguson-Florissant school district elections, correct? A. There is no ecological inference analysis being conducted here, no. Q. And there's no estimate of candidate support	is an incumbent in 2012. Dooley in 2014 and y we do have some a number of incumbents, yet Q. So just so the record is clear, in 10 12 of the exogenous elections that you pres black candidate is an incumbent, correct? A. Yes. Q. Okay. Of the two elections featurin non-incumbent black candidates, one was a democratic primary, and the other was a ge a democratic candidate against a republicat correct? A. Correct. Q. Now, you would agree, as a political scientist, that the St. Louis metro area cons primarily of democratic voters, correct? A. Yes. Q. So there's only one election here of 12 that was a partisan contest of a democra- republican and that did not feature an Africa	ad Obama yes. So s. out of sent here, the ag a primary, a eneral featuring in candidate, al sists ut of these at versus a an-American
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	A. It is an analysis of the proposition that is central to the Gingles decision, which is that the majority group, by virtue of its status as a majority, with the application of the electoral rules at hand, blocks the I'm sorry prevents the minority from electing the candidate of its choice. So if the candidate of choosing for minorities wins 100 percent of the time, I find that to be very interesting, very useful, something the Court would want to know. Q. But as you said, this is not a racial polarization analysis. Dr. Rodden, you do not, in this analysis, provide estimates of candidate support by race; is that correct? A. That's correct. Q. This is not like the ecological inference estimates that you provided in your initial report for the Ferguson-Florissant school district elections, correct? A. There is no ecological inference analysis being conducted here, no. Q. And there's no estimate of candidate support amongst voters of different races for each candidate	is an incumbent in 2012. Dooley in 2014 and y we do have some a number of incumbents, yet Q. So just so the record is clear, in 10 12 of the exogenous elections that you pres black candidate is an incumbent, correct? A. Yes. Q. Okay. Of the two elections featurin non-incumbent black candidates, one was a democratic primary, and the other was a ge a democratic candidate against a republicat correct? A. Correct. Q. Now, you would agree, as a political scientist, that the St. Louis metro area cons primarily of democratic voters, correct? A. Yes. Q. So there's only one election here of 12 that was a partisan contest of a democra 13 republican and that did not feature an Afric 20 incumbent, and that's the 2008 presidentia	ad Obama yes. So s. out of sent here, the ag a primary, a eneral featuring in candidate, al sists ut of these at versus a an-American
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	A. It is an analysis of the proposition that is central to the Gingles decision, which is that the majority group, by virtue of its status as a majority, with the application of the electoral rules at hand, blocks the I'm sorry prevents the minority from electing the candidate of its choice. So if the candidate of choosing for minorities wins 100 percent of the time, I find that to be very interesting, very useful, something the Court would want to know. Q. But as you said, this is not a racial polarization analysis. Dr. Rodden, you do not, in this analysis, provide estimates of candidate support by race; is that correct? A. That's correct. Q. This is not like the ecological inference estimates that you provided in your initial report for the Ferguson-Florissant school district elections, correct? A. There is no ecological inference analysis being conducted here, no. Q. And there's no estimate of candidate support amongst voters of different races for each candidate presented here in Table 1, correct?	is an incumbent in 2012. Dooley in 2014 and y we do have some a number of incumbents, yes Q. So just so the record is clear, in 10 12 of the exogenous elections that you pres black candidate is an incumbent, correct? A. Yes. Q. Okay. Of the two elections featurin non-incumbent black candidates, one was a democratic primary, and the other was a ge a democratic candidate against a republicat correct? A. Correct. Q. Now, you would agree, as a political scientist, that the St. Louis metro area cons primarily of democratic voters, correct? A. Yes. Q. So there's only one election here of 12 that was a partisan contest of a democra republican and that did not feature an Afric incumbent, and that's the 2008 presidentia election, correct?	ad Obama yes. So s. out of sent here, the ag a primary, a eneral featuring n candidate, al sists at of these at versus a an-American I general
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	A. It is an analysis of the proposition that is central to the Gingles decision, which is that the majority group, by virtue of its status as a majority, with the application of the electoral rules at hand, blocks the I'm sorry prevents the minority from electing the candidate of its choice. So if the candidate of choosing for minorities wins 100 percent of the time, I find that to be very interesting, very useful, something the Court would want to know. Q. But as you said, this is not a racial polarization analysis. Dr. Rodden, you do not, in this analysis, provide estimates of candidate support by race; is that correct? A. That's correct. Q. This is not like the ecological inference estimates that you provided in your initial report for the Ferguson-Florissant school district elections, correct? A. There is no ecological inference analysis being conducted here, no. Q. And there's no estimate of candidate support amongst voters of different races for each candidate presented here in Table 1, correct?	is an incumbent in 2012. Dooley in 2014 and y we do have some a number of incumbents, yes Q. So just so the record is clear, in 10 12 of the exogenous elections that you pres black candidate is an incumbent, correct? A. Yes. Q. Okay. Of the two elections featurin non-incumbent black candidates, one was a democratic primary, and the other was a ge a democratic candidate against a republicat correct? A. Correct. Q. Now, you would agree, as a political scientist, that the St. Louis metro area cons primarily of democratic voters, correct? A. Yes. Q. So there's only one election here of 12 that was a partisan contest of a democratic propublican and that did not feature an Africation correct? A. Yes. A. You're asking if there were any other pages	ad Obama yes. So s. out of sent here, the ag a primary, a eneral featuring n candidate, sists at of these at versus a an-American I general
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	A. It is an analysis of the proposition that is central to the Gingles decision, which is that the majority group, by virtue of its status as a majority, with the application of the electoral rules at hand, blocks the I'm sorry prevents the minority from electing the candidate of its choice. So if the candidate of choosing for minorities wins 100 percent of the time, I find that to be very interesting, very useful, something the Court would want to know. Q. But as you said, this is not a racial polarization analysis. Dr. Rodden, you do not, in this analysis, provide estimates of candidate support by race; is that correct? A. That's correct. Q. This is not like the ecological inference estimates that you provided in your initial report for the Ferguson-Florissant school district elections, correct? A. There is no ecological inference analysis being conducted here, no. Q. And there's no estimate of candidate support amongst voters of different races for each candidate presented here in Table 1, correct?	is an incumbent in 2012. Dooley in 2014 and y we do have some a number of incumbents, yes Q. So just so the record is clear, in 10 12 of the exogenous elections that you pres black candidate is an incumbent, correct? A. Yes. Q. Okay. Of the two elections featurin non-incumbent black candidates, one was a democratic primary, and the other was a ge a democratic candidate against a republicat correct? A. Correct. Q. Now, you would agree, as a political scientist, that the St. Louis metro area cons primarily of democratic voters, correct? A. Yes. Q. So there's only one election here of 12 that was a partisan contest of a democra republican and that did not feature an Afric incumbent, and that's the 2008 presidentia election, correct?	ad Obama yes. So s. out of sent here, the ag a primary, a eneral featuring n candidate, lisists ut of these at versus a an-American I general ritisan s other

	Page 285		Page 287
1	interesting primaries.	1	In fact, there's even one where the candidate
2	Q. Right. But only one just so that the	2	lost in the larger jurisdiction. There are others that
3	record is clear, there's only one race there that features	3	were very close where the incumbent won very comfortably
4	a democrat against a republican in which the	4	in the district, but either came very close in the larger
5	African-American candidate was a non-incumbent, and that's	5	jurisdiction or lost in the larger jurisdiction. So for
6	the 2008 presidential, correct?	6	that reason, I don't think incumbency is what explains
7	A. Correct.	7	these results.
8	Q. Now, you don't present any results of	8	Q. I would like to mark another of your
9	exogenous elections prior to 2008, correct?	9	supplemental reports, Dr. Rodden.
10	A. Yes. Again, that was the the clock ran	10	A. Yes.
11	out. I would have happily done so, but	11	Q. I think this is Rodden 20.
12	Q. But we don't know what the success rate looks	12	(Whereupon, Rodden Deposition Exhibit No. 20
13	like for African-American candidates in exogenous	13	was marked for identification.)
14	elections from 2000 to 2007, correct?	14	Q. And this is your supplemental report
15	A. I do not.	15	concerning the senate factors dated July 2nd, 2015; is
16	Q. And the exogenous elections you chose here,	16	that correct, Dr. Rodden?
17	these are all elections for jurisdictions that are larger	17	A. Yes.
18	than the Ferguson-Florissant school district, correct?	18	Q. And you recognize this report?
19	A. Yes. That's how this the only way to do	19	A. Yes.
20	this type of analysis.	20	Q. Could we look at Page 5 of the report, and
21	Q. Well, couldn't you choose elections for	21	Paragraph 11. You reference in this paragraph research
22	smaller jurisdictions that are either within or overlap	22	cited by Dr. Kimball indicating that turnout is lower in
23	with the Ferguson-Florissant school district and look at	23	elections with staggered terms. Do you see that?
24	the precinct returns for precincts that fall within the	24	A. Yes.
25	Ferguson-Florissant school district, so, for instance,	25	Q. Now, do you have any reason to dispute the
	Page 286		Page 288
1	$Page\ 286$ mayoral elections for one of the municipalities within the	1	Page 288 research cited by Dr. Kimball indicating that turnout is
1 2	•	1 2	•
	mayoral elections for one of the municipalities within the		research cited by Dr. Kimball indicating that turnout is
2	mayoral elections for one of the municipalities within the Florissant Ferguson-Florissant school district?	2	research cited by Dr. Kimball indicating that turnout is lower in elections with staggered terms?
2	mayoral elections for one of the municipalities within the Florissant Ferguson-Florissant school district? A. Then I would have to draw just only	2 3	research cited by Dr. Kimball indicating that turnout is lower in elections with staggered terms? A. In the United States? Yes, that is that
2 3 4	mayoral elections for one of the municipalities within the Florissant Ferguson-Florissant school district? A. Then I would have to draw just only conclusions about that municipality and I would have a	2 3 4	research cited by Dr. Kimball indicating that turnout is lower in elections with staggered terms? A. In the United States? Yes, that is that there are some papers with that result.
2 3 4 5	mayoral elections for one of the municipalities within the Florissant Ferguson-Florissant school district? A. Then I would have to draw just only conclusions about that municipality and I would have a hard time in fact, I believe other again, this is an	2 3 4 5	research cited by Dr. Kimball indicating that turnout is lower in elections with staggered terms? A. In the United States? Yes, that is that there are some papers with that result. Q. Now, have you yourself conducted any research
2 3 4 5 6	mayoral elections for one of the municipalities within the Florissant Ferguson-Florissant school district? A. Then I would have to draw just only conclusions about that municipality and I would have a hard time in fact, I believe other again, this is an area where I'm not an expert, but I understand that in	2 3 4 5 6	research cited by Dr. Kimball indicating that turnout is lower in elections with staggered terms? A. In the United States? Yes, that is that there are some papers with that result. Q. Now, have you yourself conducted any research on the issue of whether turnout is lower in elections with
2 3 4 5 6 7	mayoral elections for one of the municipalities within the Florissant Ferguson-Florissant school district? A. Then I would have to draw just only conclusions about that municipality and I would have a hard time in fact, I believe other again, this is an area where I'm not an expert, but I understand that in other cases experts have tried to do that and that	2 3 4 5 6 7	research cited by Dr. Kimball indicating that turnout is lower in elections with staggered terms? A. In the United States? Yes, that is that there are some papers with that result. Q. Now, have you yourself conducted any research on the issue of whether turnout is lower in elections with staggered terms?
2 3 4 5 6 7 8	mayoral elections for one of the municipalities within the Florissant Ferguson-Florissant school district? A. Then I would have to draw just only conclusions about that municipality and I would have a hard time in fact, I believe other again, this is an area where I'm not an expert, but I understand that in other cases experts have tried to do that and that analysis has been rejected. My understanding is that the only the only acceptable analysis of this kind is to use larger jurisdictions. I would have gladly analyzed	2 3 4 5 6 7 8	research cited by Dr. Kimball indicating that turnout is lower in elections with staggered terms? A. In the United States? Yes, that is that there are some papers with that result. Q. Now, have you yourself conducted any research on the issue of whether turnout is lower in elections with staggered terms? A. I want to make sure I'm getting my facts
2 3 4 5 6 7 8	mayoral elections for one of the municipalities within the Florissant Ferguson-Florissant school district? A. Then I would have to draw just only conclusions about that municipality and I would have a hard time in fact, I believe other again, this is an area where I'm not an expert, but I understand that in other cases experts have tried to do that and that analysis has been rejected. My understanding is that the only the only acceptable analysis of this kind is to use larger jurisdictions. I would have gladly analyzed some smaller jurisdictions if I thought that was something	2 3 4 5 6 7 8	research cited by Dr. Kimball indicating that turnout is lower in elections with staggered terms? A. In the United States? Yes, that is that there are some papers with that result. Q. Now, have you yourself conducted any research on the issue of whether turnout is lower in elections with staggered terms? A. I want to make sure I'm getting my facts we're only talking about staggered terms right now, not
2 3 4 5 6 7 8 9 10 11	mayoral elections for one of the municipalities within the Florissant Ferguson-Florissant school district? A. Then I would have to draw just only conclusions about that municipality and I would have a hard time in fact, I believe other again, this is an area where I'm not an expert, but I understand that in other cases experts have tried to do that and that analysis has been rejected. My understanding is that the only the only acceptable analysis of this kind is to use larger jurisdictions. I would have gladly analyzed some smaller jurisdictions if I thought that was something that the courts might find useful, but again, my	2 3 4 5 6 7 8 9 10 11	research cited by Dr. Kimball indicating that turnout is lower in elections with staggered terms? A. In the United States? Yes, that is that there are some papers with that result. Q. Now, have you yourself conducted any research on the issue of whether turnout is lower in elections with staggered terms? A. I want to make sure I'm getting my facts we're only talking about staggered terms right now, not off-cycle. We're referring to staggered terms? Q. Uh-huh. A. This is a there's not very much research on
2 3 4 5 6 7 8 9 10 11 12 13	mayoral elections for one of the municipalities within the Florissant Ferguson-Florissant school district? A. Then I would have to draw just only conclusions about that municipality and I would have a hard time in fact, I believe other again, this is an area where I'm not an expert, but I understand that in other cases experts have tried to do that and that analysis has been rejected. My understanding is that the only the only acceptable analysis of this kind is to use larger jurisdictions. I would have gladly analyzed some smaller jurisdictions if I thought that was something that the courts might find useful, but again, my understanding of case law is that courts do not look	2 3 4 5 6 7 8 9 10 11 12 13	research cited by Dr. Kimball indicating that turnout is lower in elections with staggered terms? A. In the United States? Yes, that is that there are some papers with that result. Q. Now, have you yourself conducted any research on the issue of whether turnout is lower in elections with staggered terms? A. I want to make sure I'm getting my facts we're only talking about staggered terms right now, not off-cycle. We're referring to staggered terms? Q. Uh-huh. A. This is a there's not very much research on this, and I certainly I have not done any of it.
2 3 4 5 6 7 8 9 10 11 12 13	mayoral elections for one of the municipalities within the Florissant Ferguson-Florissant school district? A. Then I would have to draw just only conclusions about that municipality and I would have a hard time in fact, I believe other again, this is an area where I'm not an expert, but I understand that in other cases experts have tried to do that and that analysis has been rejected. My understanding is that the only the only acceptable analysis of this kind is to use larger jurisdictions. I would have gladly analyzed some smaller jurisdictions if I thought that was something that the courts might find useful, but again, my understanding of case law is that courts do not look favorably upon that analysis.	2 3 4 5 6 7 8 9 10 11 12 13	research cited by Dr. Kimball indicating that turnout is lower in elections with staggered terms? A. In the United States? Yes, that is that there are some papers with that result. Q. Now, have you yourself conducted any research on the issue of whether turnout is lower in elections with staggered terms? A. I want to make sure I'm getting my facts we're only talking about staggered terms right now, not off-cycle. We're referring to staggered terms? Q. Uh-huh. A. This is a there's not very much research on this, and I certainly I have not done any of it. Q. Now, continuing on to Page 6, you make
2 3 4 5 6 7 8 9 10 11 12 13 14	mayoral elections for one of the municipalities within the Florissant Ferguson-Florissant school district? A. Then I would have to draw just only conclusions about that municipality and I would have a hard time in fact, I believe other again, this is an area where I'm not an expert, but I understand that in other cases experts have tried to do that and that analysis has been rejected. My understanding is that the only the only acceptable analysis of this kind is to use larger jurisdictions. I would have gladly analyzed some smaller jurisdictions if I thought that was something that the courts might find useful, but again, my understanding of case law is that courts do not look favorably upon that analysis. And I certainly understand your concerns about	2 3 4 5 6 7 8 9 10 11 12 13 14	research cited by Dr. Kimball indicating that turnout is lower in elections with staggered terms? A. In the United States? Yes, that is that there are some papers with that result. Q. Now, have you yourself conducted any research on the issue of whether turnout is lower in elections with staggered terms? A. I want to make sure I'm getting my facts we're only talking about staggered terms right now, not off-cycle. We're referring to staggered terms? Q. Uh-huh. A. This is a there's not very much research on this, and I certainly I have not done any of it. Q. Now, continuing on to Page 6, you make reference to Dr. Kimball's reference to the absence of
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	mayoral elections for one of the municipalities within the Florissant Ferguson-Florissant school district? A. Then I would have to draw just only conclusions about that municipality and I would have a hard time in fact, I believe other again, this is an area where I'm not an expert, but I understand that in other cases experts have tried to do that and that analysis has been rejected. My understanding is that the only the only acceptable analysis of this kind is to use larger jurisdictions. I would have gladly analyzed some smaller jurisdictions if I thought that was something that the courts might find useful, but again, my understanding of case law is that courts do not look favorably upon that analysis. And I certainly understand your concerns about incumbency, but I just would like to point out for the	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	research cited by Dr. Kimball indicating that turnout is lower in elections with staggered terms? A. In the United States? Yes, that is that there are some papers with that result. Q. Now, have you yourself conducted any research on the issue of whether turnout is lower in elections with staggered terms? A. I want to make sure I'm getting my facts we're only talking about staggered terms right now, not off-cycle. We're referring to staggered terms? Q. Uh-huh. A. This is a there's not very much research on this, and I certainly I have not done any of it. Q. Now, continuing on to Page 6, you make reference to Dr. Kimball's reference to the absence of partisan labels in Ferguson-Florissant school district
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	mayoral elections for one of the municipalities within the Florissant Ferguson-Florissant school district? A. Then I would have to draw just only conclusions about that municipality and I would have a hard time in fact, I believe other again, this is an area where I'm not an expert, but I understand that in other cases experts have tried to do that and that analysis has been rejected. My understanding is that the only the only acceptable analysis of this kind is to use larger jurisdictions. I would have gladly analyzed some smaller jurisdictions if I thought that was something that the courts might find useful, but again, my understanding of case law is that courts do not look favorably upon that analysis. And I certainly understand your concerns about incumbency, but I just would like to point out for the record that there are several elections here in which the	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	research cited by Dr. Kimball indicating that turnout is lower in elections with staggered terms? A. In the United States? Yes, that is that there are some papers with that result. Q. Now, have you yourself conducted any research on the issue of whether turnout is lower in elections with staggered terms? A. I want to make sure I'm getting my facts we're only talking about staggered terms right now, not off-cycle. We're referring to staggered terms? Q. Uh-huh. A. This is a there's not very much research on this, and I certainly I have not done any of it. Q. Now, continuing on to Page 6, you make reference to Dr. Kimball's reference to the absence of partisan labels in Ferguson-Florissant school district elections, correct?
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	mayoral elections for one of the municipalities within the Florissant Ferguson-Florissant school district? A. Then I would have to draw just only conclusions about that municipality and I would have a hard time in fact, I believe other again, this is an area where I'm not an expert, but I understand that in other cases experts have tried to do that and that analysis has been rejected. My understanding is that the only the only acceptable analysis of this kind is to use larger jurisdictions. I would have gladly analyzed some smaller jurisdictions if I thought that was something that the courts might find useful, but again, my understanding of case law is that courts do not look favorably upon that analysis. And I certainly understand your concerns about incumbency, but I just would like to point out for the record that there are several elections here in which the overall election was very close. So if the implication	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	research cited by Dr. Kimball indicating that turnout is lower in elections with staggered terms? A. In the United States? Yes, that is that there are some papers with that result. Q. Now, have you yourself conducted any research on the issue of whether turnout is lower in elections with staggered terms? A. I want to make sure I'm getting my facts we're only talking about staggered terms right now, not off-cycle. We're referring to staggered terms? Q. Uh-huh. A. This is a there's not very much research on this, and I certainly I have not done any of it. Q. Now, continuing on to Page 6, you make reference to Dr. Kimball's reference to the absence of partisan labels in Ferguson-Florissant school district elections, correct? A. Yes.
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	mayoral elections for one of the municipalities within the Florissant Ferguson-Florissant school district? A. Then I would have to draw just only conclusions about that municipality and I would have a hard time in fact, I believe other again, this is an area where I'm not an expert, but I understand that in other cases experts have tried to do that and that analysis has been rejected. My understanding is that the only the only acceptable analysis of this kind is to use larger jurisdictions. I would have gladly analyzed some smaller jurisdictions if I thought that was something that the courts might find useful, but again, my understanding of case law is that courts do not look favorably upon that analysis. And I certainly understand your concerns about incumbency, but I just would like to point out for the record that there are several elections here in which the overall election was very close. So if the implication here is that incumbents are likely to get very large	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	research cited by Dr. Kimball indicating that turnout is lower in elections with staggered terms? A. In the United States? Yes, that is that there are some papers with that result. Q. Now, have you yourself conducted any research on the issue of whether turnout is lower in elections with staggered terms? A. I want to make sure I'm getting my facts we're only talking about staggered terms right now, not off-cycle. We're referring to staggered terms? Q. Uh-huh. A. This is a there's not very much research on this, and I certainly I have not done any of it. Q. Now, continuing on to Page 6, you make reference to Dr. Kimball's reference to the absence of partisan labels in Ferguson-Florissant school district elections, correct? A. Yes. Q. Now, do you have any reason to dispute the
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	mayoral elections for one of the municipalities within the Florissant Ferguson-Florissant school district? A. Then I would have to draw just only conclusions about that municipality and I would have a hard time in fact, I believe other again, this is an area where I'm not an expert, but I understand that in other cases experts have tried to do that and that analysis has been rejected. My understanding is that the only the only acceptable analysis of this kind is to use larger jurisdictions. I would have gladly analyzed some smaller jurisdictions if I thought that was something that the courts might find useful, but again, my understanding of case law is that courts do not look favorably upon that analysis. And I certainly understand your concerns about incumbency, but I just would like to point out for the record that there are several elections here in which the overall election was very close. So if the implication here is that incumbents are likely to get very large amounts of support and that accounts for this difference,	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	research cited by Dr. Kimball indicating that turnout is lower in elections with staggered terms? A. In the United States? Yes, that is that there are some papers with that result. Q. Now, have you yourself conducted any research on the issue of whether turnout is lower in elections with staggered terms? A. I want to make sure I'm getting my facts we're only talking about staggered terms right now, not off-cycle. We're referring to staggered terms? Q. Uh-huh. A. This is a there's not very much research on this, and I certainly I have not done any of it. Q. Now, continuing on to Page 6, you make reference to Dr. Kimball's reference to the absence of partisan labels in Ferguson-Florissant school district elections, correct? A. Yes. Q. Now, do you have any reason to dispute the research that Dr. Kimball cites indicating that minority
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	mayoral elections for one of the municipalities within the Florissant Ferguson-Florissant school district? A. Then I would have to draw just only conclusions about that municipality and I would have a hard time in fact, I believe other again, this is an area where I'm not an expert, but I understand that in other cases experts have tried to do that and that analysis has been rejected. My understanding is that the only the only acceptable analysis of this kind is to use larger jurisdictions. I would have gladly analyzed some smaller jurisdictions if I thought that was something that the courts might find useful, but again, my understanding of case law is that courts do not look favorably upon that analysis. And I certainly understand your concerns about incumbency, but I just would like to point out for the record that there are several elections here in which the overall election was very close. So if the implication here is that incumbents are likely to get very large amounts of support and that accounts for this difference, that would that would only really be it only would	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	research cited by Dr. Kimball indicating that turnout is lower in elections with staggered terms? A. In the United States? Yes, that is that there are some papers with that result. Q. Now, have you yourself conducted any research on the issue of whether turnout is lower in elections with staggered terms? A. I want to make sure I'm getting my facts we're only talking about staggered terms right now, not off-cycle. We're referring to staggered terms? Q. Uh-huh. A. This is a there's not very much research on this, and I certainly I have not done any of it. Q. Now, continuing on to Page 6, you make reference to Dr. Kimball's reference to the absence of partisan labels in Ferguson-Florissant school district elections, correct? A. Yes. Q. Now, do you have any reason to dispute the research that Dr. Kimball cites indicating that minority turnout is higher in elections where the partisan
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	mayoral elections for one of the municipalities within the Florissant Ferguson-Florissant school district? A. Then I would have to draw just only conclusions about that municipality and I would have a hard time in fact, I believe other again, this is an area where I'm not an expert, but I understand that in other cases experts have tried to do that and that analysis has been rejected. My understanding is that the only the only acceptable analysis of this kind is to use larger jurisdictions. I would have gladly analyzed some smaller jurisdictions if I thought that was something that the courts might find useful, but again, my understanding of case law is that courts do not look favorably upon that analysis. And I certainly understand your concerns about incumbency, but I just would like to point out for the record that there are several elections here in which the overall election was very close. So if the implication here is that incumbents are likely to get very large amounts of support and that accounts for this difference, that would that would only really be it only would really tell us something if it was the case that the	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	research cited by Dr. Kimball indicating that turnout is lower in elections with staggered terms? A. In the United States? Yes, that is that there are some papers with that result. Q. Now, have you yourself conducted any research on the issue of whether turnout is lower in elections with staggered terms? A. I want to make sure I'm getting my facts we're only talking about staggered terms right now, not off-cycle. We're referring to staggered terms? Q. Uh-huh. A. This is a there's not very much research on this, and I certainly I have not done any of it. Q. Now, continuing on to Page 6, you make reference to Dr. Kimball's reference to the absence of partisan labels in Ferguson-Florissant school district elections, correct? A. Yes. Q. Now, do you have any reason to dispute the research that Dr. Kimball cites indicating that minority turnout is higher in elections where the partisan affiliation of candidates is indicated?
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	mayoral elections for one of the municipalities within the Florissant Ferguson-Florissant school district? A. Then I would have to draw just only conclusions about that municipality and I would have a hard time in fact, I believe other again, this is an area where I'm not an expert, but I understand that in other cases experts have tried to do that and that analysis has been rejected. My understanding is that the only the only acceptable analysis of this kind is to use larger jurisdictions. I would have gladly analyzed some smaller jurisdictions if I thought that was something that the courts might find useful, but again, my understanding of case law is that courts do not look favorably upon that analysis. And I certainly understand your concerns about incumbency, but I just would like to point out for the record that there are several elections here in which the overall election was very close. So if the implication here is that incumbents are likely to get very large amounts of support and that accounts for this difference, that would that would only really be it only would really tell us something if it was the case that the incumbent also received a similar overwhelming support in	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	research cited by Dr. Kimball indicating that turnout is lower in elections with staggered terms? A. In the United States? Yes, that is that there are some papers with that result. Q. Now, have you yourself conducted any research on the issue of whether turnout is lower in elections with staggered terms? A. I want to make sure I'm getting my facts we're only talking about staggered terms right now, not off-cycle. We're referring to staggered terms? Q. Uh-huh. A. This is a there's not very much research on this, and I certainly I have not done any of it. Q. Now, continuing on to Page 6, you make reference to Dr. Kimball's reference to the absence of partisan labels in Ferguson-Florissant school district elections, correct? A. Yes. Q. Now, do you have any reason to dispute the research that Dr. Kimball cites indicating that minority turnout is higher in elections where the partisan affiliation of candidates is indicated? A. The question is what is the state of the
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	mayoral elections for one of the municipalities within the Florissant Ferguson-Florissant school district? A. Then I would have to draw just only conclusions about that municipality and I would have a hard time in fact, I believe other again, this is an area where I'm not an expert, but I understand that in other cases experts have tried to do that and that analysis has been rejected. My understanding is that the only the only acceptable analysis of this kind is to use larger jurisdictions. I would have gladly analyzed some smaller jurisdictions if I thought that was something that the courts might find useful, but again, my understanding of case law is that courts do not look favorably upon that analysis. And I certainly understand your concerns about incumbency, but I just would like to point out for the record that there are several elections here in which the overall election was very close. So if the implication here is that incumbents are likely to get very large amounts of support and that accounts for this difference, that would that would only really be it only would really tell us something if it was the case that the	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	research cited by Dr. Kimball indicating that turnout is lower in elections with staggered terms? A. In the United States? Yes, that is that there are some papers with that result. Q. Now, have you yourself conducted any research on the issue of whether turnout is lower in elections with staggered terms? A. I want to make sure I'm getting my facts we're only talking about staggered terms right now, not off-cycle. We're referring to staggered terms? Q. Uh-huh. A. This is a there's not very much research on this, and I certainly I have not done any of it. Q. Now, continuing on to Page 6, you make reference to Dr. Kimball's reference to the absence of partisan labels in Ferguson-Florissant school district elections, correct? A. Yes. Q. Now, do you have any reason to dispute the research that Dr. Kimball cites indicating that minority turnout is higher in elections where the partisan affiliation of candidates is indicated?

	Page 289		Page 291
1	non-partisan races?	1	A. I'm not I just want to make sure I
2	Q. Well, not exactly. You can have a	2	understand. You're asking if I've heard of an electoral
3	non-partisan race where the partisan affiliation of the	3	system in which several democrats are allowed on the same
4	candidate is noted, correct? I guess what I mean is	4	ballot?
5	A. I'm not aware of that distinction.	5	Q. Uh-huh.
6	Q. Well, what I'm saying is you can have in	6	A. And several republicans, and yes, that would
7	some elections you have like the republican candidate or	7	be the top-two primary system in California. So in the
8	the republican slate of candidates against the democratic	8	primary we would end up they end up with several
9	candidate or the democratic slate of candidates, right,	9	republicans and several democrats on the ballot. They
10	where there's sort of a zero sum between republican and	10	each would have a D or an R next to their name. So yes,
11	democratic candidates, like a head-to-head. You can have	11	sometimes yeah, an open primary is another way to think
12	an election like that, right?	12	about it.
13	A. A general election I'm sorry. With	13	Q. And you have seen research that indicates that
14	democrats and republicans on the ballot, but there's more	14	minority turnout tends to be higher in those kinds of
15	than one candidate with that party label?	15	elections when the partisan affiliation of the candidate
16	Q. Sorry. It's getting late and I'm a little	16	is clearly identified as opposed to when the candidates'
17	I'm not being clear.	17	party affiliations is not identified, correct?
18	A. In California with the top-two system	18	A. I don't know that research. It's possible
19	Q. California is totally different.	19	such research exists, but I don't know of it.
20	A. Yes.	20	Q. And you haven't conducted any research on that
21	Q. Yeah. I'm talking about, you know, most	21	issue, correct?
22	people are familiar with general elections where there is	22	A. No, that's right.
23	an office and there's one republican candidate and one	23	Q. In the next paragraph, Paragraph 12, you
24	democratic candidate vying against each other, right?	24	reference Professor Kimball's discussion of labor union
25	A. In the general.	25	endorsements, correct?
	Page 290		Page 292
1	Q. Yes.	1	A. Yes.
2	A. In most states.	2	Q. And one of the things that you say we need to
3	Q. Or one candidate from each party, you could	3	know is the number of African-American candidates who have
4	have	4	applied for union endorsements in the Ferguson-Florissant
5	A. Not Louisiana, but we can	5	school district, correct?
6	Q. You could have the democratic candidate, the	6	A. Yes.
7	republican candidate, the libertarian candidate, the green	7	Q. And have you conducted any investigation of
8	party candidate	8	the number of African-American candidates who have applied
9	A. Yes. Yeah.	9	for labor union endorsement?
10	Q and there's one from each party?	10	A. No.
11	A. Yes.	11	Q. Another thing you say we ought to know is
12	Q. And it's sort of like a zero sum. You're	12	whether white and African-American candidates express
13	going to either vote for the republican candidate or the	13	similar levels of agreement with unions policy agendas,
14	democratic candidate or the Green Party candidate, right?	14	correct?
15	A. Uh-huh.	15	A. Yes. I'm imaging that if I'm the person or
16	Q. Now, there are other elections where there's	16	the body in charge of making decisions about union
17	Q. Now, there are other elections where there's no limit on the number of candidates from any particular	17	endorsements, I want candidates who have the same ideas
17 18	Q. Now, there are other elections where there's no limit on the number of candidates from any particular party. You just have a pool of candidates and there's a	17 18	endorsements, I want candidates who have the same ideas about teacher pay and classroom size and so forth.
17 18 19	Q. Now, there are other elections where there's no limit on the number of candidates from any particular party. You just have a pool of candidates and there's a partisan affiliation identified with the candidate, so	17 18 19	endorsements, I want candidates who have the same ideas about teacher pay and classroom size and so forth. Q. Now, you didn't conduct any investigation of
17 18 19 20	Q. Now, there are other elections where there's no limit on the number of candidates from any particular party. You just have a pool of candidates and there's a partisan affiliation identified with the candidate, so it's not republican against democrat against green against	17 18 19 20	endorsements, I want candidates who have the same ideas about teacher pay and classroom size and so forth. Q. Now, you didn't conduct any investigation of whether or not white and African-American candidates in
17 18 19 20 21	Q. Now, there are other elections where there's no limit on the number of candidates from any particular party. You just have a pool of candidates and there's a partisan affiliation identified with the candidate, so it's not republican against democrat against green against libertarian, it's just candidates all against each other,	17 18 19 20 21	endorsements, I want candidates who have the same ideas about teacher pay and classroom size and so forth. Q. Now, you didn't conduct any investigation of whether or not white and African-American candidates in the Ferguson-Florissant school district express similar
17 18 19 20 21 22	Q. Now, there are other elections where there's no limit on the number of candidates from any particular party. You just have a pool of candidates and there's a partisan affiliation identified with the candidate, so it's not republican against democrat against green against libertarian, it's just candidates all against each other, and there might be five democrats and two republicans and	17 18 19 20 21 22	endorsements, I want candidates who have the same ideas about teacher pay and classroom size and so forth. Q. Now, you didn't conduct any investigation of whether or not white and African-American candidates in the Ferguson-Florissant school district express similar levels of agreement with the teachers union's policy
17 18 19 20 21 22 23	Q. Now, there are other elections where there's no limit on the number of candidates from any particular party. You just have a pool of candidates and there's a partisan affiliation identified with the candidate, so it's not republican against democrat against green against libertarian, it's just candidates all against each other, and there might be five democrats and two republicans and three greens or something like that where all you're doing	17 18 19 20 21 22 23	endorsements, I want candidates who have the same ideas about teacher pay and classroom size and so forth. Q. Now, you didn't conduct any investigation of whether or not white and African-American candidates in the Ferguson-Florissant school district express similar levels of agreement with the teachers union's policy agenda, did you?
17 18 19 20 21 22	Q. Now, there are other elections where there's no limit on the number of candidates from any particular party. You just have a pool of candidates and there's a partisan affiliation identified with the candidate, so it's not republican against democrat against green against libertarian, it's just candidates all against each other, and there might be five democrats and two republicans and	17 18 19 20 21 22	endorsements, I want candidates who have the same ideas about teacher pay and classroom size and so forth. Q. Now, you didn't conduct any investigation of whether or not white and African-American candidates in the Ferguson-Florissant school district express similar levels of agreement with the teachers union's policy

	D 202		D 205
	Page 293		Page 295
1	relevant which is whether African-Americans are involved	1	it's a bit like taking a very popular member of
2	in making decisions about union endorsements, correct?	2	congress who never attracts challengers and saying that
3	A. Correct.	3	that person was never re-elected.
4	Q. And did you conduct any research or	4	Q. So let's talk about Doris Graham for a moment,
5	investigation of whether African-Americans are involved in	5	if you don't mind.
6	the making of decisions about labor union endorsements in	6	A. Sure.
7	the Ferguson-Florissant school district?	7	Q. Do you still have Rodden Exhibit 18?
8	A. No.	8	A. Somewhere.
9	Q. Did you conduct any research whatsoever into	9	Q. Now, Doris Graham was never the top-ranked
10	how the labor unions in the Ferguson-Florissant school	10	candidate amongst white voters, correct?
11	district go about making their endorsements?	11	A. Correct.
12	A. No.	12	Q. And in can we look at Exhibit 12 which
13	Q. Now, turning to Page 8 of this report,	13	applies your decision rule using point estimates
14	Paragraph 17, the last sentence, you reference a statistic	14	A. Sure.
15	that African-American incumbents won 70 percent of the	15	 Q to ascertain candidate-preferred status.
16	time. Am I understanding you correctly?	16	A. Uh-huh.
17	A. I need to get the context. Can you give me a	17	Q. Doris Graham was never a white-preferred
18	moment, please?	18	candidate, using the point estimates; is that correct?
19	Q. Sure. Take your time.	19	A. She was not amongst the top two for whites in
20	A. Yes. So I was responding to I'm sorry.	20	the two-candidate elections, and she was not among the top
21	I'll let you ask the question.	21	three for whites in the three-candidate election. My
22	Q. Right. So you're saying here that	22	memory would suggest she came very close a couple of
23	African-American incumbents won 70 percent of the time in	23	times, but yes, the answer to your question is yes.
24	Ferguson-Florissant School Board elections, correct?	24	Q. So let's look at Page 10 of your supplemental
25	A. Yes, and	25	report here, Dr. Rodden, and I'm looking at Paragraph 20
	Page 294		Page 296
1	Q. Wait. Maybe I misspoke.	1	which continues from the previous page. In the so I'll
2	A. I tried to be clear about what I was doing	2	read the sentence. "While whites continue to use zoning,
3	hara which is that and if this is contraversial, then		read the sentence. Write writes continue to use zoning,
	here, which is that and if this is controversial, then	3	all-out resistance to school desegregation, and other
4	we can have discussion about it, but I viewed an incumbent	3 4	_
			all-out resistance to school desegregation, and other
4	we can have discussion about it, but I viewed an incumbent	4	all-out resistance to school desegregation, and other tools to perpetuate desegregation elsewhere in St. Louis,
4 5	we can have discussion about it, but I viewed an incumbent who did not attract a challenger and who retained their	4 5	all-out resistance to school desegregation, and other tools to perpetuate desegregation elsewhere in St. Louis, advocates of desegregation were victorious in North St.
4 5 6	we can have discussion about it, but I viewed an incumbent who did not attract a challenger and who retained their position in office, I view them as a re-elected incumbent,	4 5 6	all-out resistance to school desegregation, and other tools to perpetuate desegregation elsewhere in St. Louis, advocates of desegregation were victorious in North St. Louis County and its municipalities became the most
4 5 6 7	we can have discussion about it, but I viewed an incumbent who did not attract a challenger and who retained their position in office, I view them as a re-elected incumbent, as in fact, technically that's what they are in	4 5 6 7	all-out resistance to school desegregation, and other tools to perpetuate desegregation elsewhere in St. Louis, advocates of desegregation were victorious in North St. Louis County and its municipalities became the most racially integrated in St. Louis."
4 5 6 7 8	we can have discussion about it, but I viewed an incumbent who did not attract a challenger and who retained their position in office, I view them as a re-elected incumbent, as in fact, technically that's what they are in Ferguson-Florissant. They do not print the ballots and	4 5 6 7 8	all-out resistance to school desegregation, and other tools to perpetuate desegregation elsewhere in St. Louis, advocates of desegregation were victorious in North St. Louis County and its municipalities became the most racially integrated in St. Louis." Did I read what you wrote correctly?
4 5 6 7 8 9	we can have discussion about it, but I viewed an incumbent who did not attract a challenger and who retained their position in office, I view them as a re-elected incumbent, as in fact, technically that's what they are in Ferguson-Florissant. They do not print the ballots and run the election in order to save money, but they are	4 5 6 7 8	all-out resistance to school desegregation, and other tools to perpetuate desegregation elsewhere in St. Louis, advocates of desegregation were victorious in North St. Louis County and its municipalities became the most racially integrated in St. Louis." Did I read what you wrote correctly? A. Yes.
4 5 6 7 8 9	we can have discussion about it, but I viewed an incumbent who did not attract a challenger and who retained their position in office, I view them as a re-elected incumbent, as in fact, technically that's what they are in Ferguson-Florissant. They do not print the ballots and run the election in order to save money, but they are re-elected, it's my understanding of how they how it's	4 5 6 7 8 9	all-out resistance to school desegregation, and other tools to perpetuate desegregation elsewhere in St. Louis, advocates of desegregation were victorious in North St. Louis County and its municipalities became the most racially integrated in St. Louis." Did I read what you wrote correctly? A. Yes. Q. And you have a footnote here, and for your
4 5 6 7 8 9 10 11	we can have discussion about it, but I viewed an incumbent who did not attract a challenger and who retained their position in office, I view them as a re-elected incumbent, as in fact, technically that's what they are in Ferguson-Florissant. They do not print the ballots and run the election in order to save money, but they are re-elected, it's my understanding of how they how it's considered.	4 5 6 7 8 9 10	all-out resistance to school desegregation, and other tools to perpetuate desegregation elsewhere in St. Louis, advocates of desegregation were victorious in North St. Louis County and its municipalities became the most racially integrated in St. Louis." Did I read what you wrote correctly? A. Yes. Q. And you have a footnote here, and for your citation to for your support for this proposition, and
4 5 6 7 8 9 10 11	we can have discussion about it, but I viewed an incumbent who did not attract a challenger and who retained their position in office, I view them as a re-elected incumbent, as in fact, technically that's what they are in Ferguson-Florissant. They do not print the ballots and run the election in order to save money, but they are re-elected, it's my understanding of how they how it's considered. Q. Right. So this 70 percent figure, this	4 5 6 7 8 9 10 11 12	all-out resistance to school desegregation, and other tools to perpetuate desegregation elsewhere in St. Louis, advocates of desegregation were victorious in North St. Louis County and its municipalities became the most racially integrated in St. Louis." Did I read what you wrote correctly? A. Yes. Q. And you have a footnote here, and for your citation to for your support for this proposition, and that is your blog post in the Washington Post that we
4 5 6 7 8 9 10 11 12 13	we can have discussion about it, but I viewed an incumbent who did not attract a challenger and who retained their position in office, I view them as a re-elected incumbent, as in fact, technically that's what they are in Ferguson-Florissant. They do not print the ballots and run the election in order to save money, but they are re-elected, it's my understanding of how they how it's considered. Q. Right. So this 70 percent figure, this includes African-American candidates who ascended to	4 5 6 7 8 9 10 11 12 13	all-out resistance to school desegregation, and other tools to perpetuate desegregation elsewhere in St. Louis, advocates of desegregation were victorious in North St. Louis County and its municipalities became the most racially integrated in St. Louis." Did I read what you wrote correctly? A. Yes. Q. And you have a footnote here, and for your citation to for your support for this proposition, and that is your blog post in the Washington Post that we discussed earlier today, correct?
4 5 6 7 8 9 10 11 12 13 14	we can have discussion about it, but I viewed an incumbent who did not attract a challenger and who retained their position in office, I view them as a re-elected incumbent, as in fact, technically that's what they are in Ferguson-Florissant. They do not print the ballots and run the election in order to save money, but they are re-elected, it's my understanding of how they how it's considered. Q. Right. So this 70 percent figure, this includes African-American candidates who ascended to office in	4 5 6 7 8 9 10 11 12 13	all-out resistance to school desegregation, and other tools to perpetuate desegregation elsewhere in St. Louis, advocates of desegregation were victorious in North St. Louis County and its municipalities became the most racially integrated in St. Louis." Did I read what you wrote correctly? A. Yes. Q. And you have a footnote here, and for your citation to for your support for this proposition, and that is your blog post in the Washington Post that we discussed earlier today, correct? A. Yes.
4 5 6 7 8 9 10 11 12 13 14 15	we can have discussion about it, but I viewed an incumbent who did not attract a challenger and who retained their position in office, I view them as a re-elected incumbent, as in fact, technically that's what they are in Ferguson-Florissant. They do not print the ballots and run the election in order to save money, but they are re-elected, it's my understanding of how they how it's considered. Q. Right. So this 70 percent figure, this includes African-American candidates who ascended to office in A. Yes, because if we take I'm sorry.	4 5 6 7 8 9 10 11 12 13 14	all-out resistance to school desegregation, and other tools to perpetuate desegregation elsewhere in St. Louis, advocates of desegregation were victorious in North St. Louis County and its municipalities became the most racially integrated in St. Louis." Did I read what you wrote correctly? A. Yes. Q. And you have a footnote here, and for your citation to for your support for this proposition, and that is your blog post in the Washington Post that we discussed earlier today, correct? A. Yes. Q. And just so I understand, is your blog post
4 5 6 7 8 9 10 11 12 13 14 15 16	we can have discussion about it, but I viewed an incumbent who did not attract a challenger and who retained their position in office, I view them as a re-elected incumbent, as in fact, technically that's what they are in Ferguson-Florissant. They do not print the ballots and run the election in order to save money, but they are re-elected, it's my understanding of how they how it's considered. Q. Right. So this 70 percent figure, this includes African-American candidates who ascended to office in A. Yes, because if we take I'm sorry. Q. Let me finish. In an uncontested election,	4 5 6 7 8 9 10 11 12 13 14 15	all-out resistance to school desegregation, and other tools to perpetuate desegregation elsewhere in St. Louis, advocates of desegregation were victorious in North St. Louis County and its municipalities became the most racially integrated in St. Louis." Did I read what you wrote correctly? A. Yes. Q. And you have a footnote here, and for your citation to for your support for this proposition, and that is your blog post in the Washington Post that we discussed earlier today, correct? A. Yes. Q. And just so I understand, is your blog post the citation that you are using to support the proposition
4 5 6 7 8 9 10 11 12 13 14 15 16 17	we can have discussion about it, but I viewed an incumbent who did not attract a challenger and who retained their position in office, I view them as a re-elected incumbent, as in fact, technically that's what they are in Ferguson-Florissant. They do not print the ballots and run the election in order to save money, but they are re-elected, it's my understanding of how they how it's considered. Q. Right. So this 70 percent figure, this includes African-American candidates who ascended to office in A. Yes, because if we take I'm sorry. Q. Let me finish. In an uncontested election, correct?	4 5 6 7 8 9 10 11 12 13 14 15 16	all-out resistance to school desegregation, and other tools to perpetuate desegregation elsewhere in St. Louis, advocates of desegregation were victorious in North St. Louis County and its municipalities became the most racially integrated in St. Louis." Did I read what you wrote correctly? A. Yes. Q. And you have a footnote here, and for your citation to for your support for this proposition, and that is your blog post in the Washington Post that we discussed earlier today, correct? A. Yes. Q. And just so I understand, is your blog post the citation that you are using to support the proposition that North County municipalities are the most racially
4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	we can have discussion about it, but I viewed an incumbent who did not attract a challenger and who retained their position in office, I view them as a re-elected incumbent, as in fact, technically that's what they are in Ferguson-Florissant. They do not print the ballots and run the election in order to save money, but they are re-elected, it's my understanding of how they how it's considered. Q. Right. So this 70 percent figure, this includes African-American candidates who ascended to office in A. Yes, because if we take I'm sorry. Q. Let me finish. In an uncontested election, correct? A. Yes, because if we take if we take Doris	4 5 6 7 8 9 10 11 12 13 14 15 16 17	all-out resistance to school desegregation, and other tools to perpetuate desegregation elsewhere in St. Louis, advocates of desegregation were victorious in North St. Louis County and its municipalities became the most racially integrated in St. Louis." Did I read what you wrote correctly? A. Yes. Q. And you have a footnote here, and for your citation to for your support for this proposition, and that is your blog post in the Washington Post that we discussed earlier today, correct? A. Yes. Q. And just so I understand, is your blog post the citation that you are using to support the proposition that North County municipalities are the most racially integrated in St. Louis?
4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	we can have discussion about it, but I viewed an incumbent who did not attract a challenger and who retained their position in office, I view them as a re-elected incumbent, as in fact, technically that's what they are in Ferguson-Florissant. They do not print the ballots and run the election in order to save money, but they are re-elected, it's my understanding of how they how it's considered. Q. Right. So this 70 percent figure, this includes African-American candidates who ascended to office in A. Yes, because if we take I'm sorry. Q. Let me finish. In an uncontested election, correct? A. Yes, because if we take if we take Doris Graham and we ignore the times when she is re-elected	4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	all-out resistance to school desegregation, and other tools to perpetuate desegregation elsewhere in St. Louis, advocates of desegregation were victorious in North St. Louis County and its municipalities became the most racially integrated in St. Louis." Did I read what you wrote correctly? A. Yes. Q. And you have a footnote here, and for your citation to for your support for this proposition, and that is your blog post in the Washington Post that we discussed earlier today, correct? A. Yes. Q. And just so I understand, is your blog post the citation that you are using to support the proposition that North County municipalities are the most racially integrated in St. Louis? A. Yes.
4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	we can have discussion about it, but I viewed an incumbent who did not attract a challenger and who retained their position in office, I view them as a re-elected incumbent, as in fact, technically that's what they are in Ferguson-Florissant. They do not print the ballots and run the election in order to save money, but they are re-elected, it's my understanding of how they how it's considered. Q. Right. So this 70 percent figure, this includes African-American candidates who ascended to office in A. Yes, because if we take I'm sorry. Q. Let me finish. In an uncontested election, correct? A. Yes, because if we take if we take Doris Graham and we ignore the times when she is re-elected without a challenger, this was a very popular board member	4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	all-out resistance to school desegregation, and other tools to perpetuate desegregation elsewhere in St. Louis, advocates of desegregation were victorious in North St. Louis County and its municipalities became the most racially integrated in St. Louis." Did I read what you wrote correctly? A. Yes. Q. And you have a footnote here, and for your citation to for your support for this proposition, and that is your blog post in the Washington Post that we discussed earlier today, correct? A. Yes. Q. And just so I understand, is your blog post the citation that you are using to support the proposition that North County municipalities are the most racially integrated in St. Louis? A. Yes. Q. And as we discussed earlier, that blog post
4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	we can have discussion about it, but I viewed an incumbent who did not attract a challenger and who retained their position in office, I view them as a re-elected incumbent, as in fact, technically that's what they are in Ferguson-Florissant. They do not print the ballots and run the election in order to save money, but they are re-elected, it's my understanding of how they how it's considered. Q. Right. So this 70 percent figure, this includes African-American candidates who ascended to office in A. Yes, because if we take I'm sorry. Q. Let me finish. In an uncontested election, correct? A. Yes, because if we take if we take Doris Graham and we ignore the times when she is re-elected without a challenger, this was a very popular board member who is known in the community, did not attract	4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	all-out resistance to school desegregation, and other tools to perpetuate desegregation elsewhere in St. Louis, advocates of desegregation were victorious in North St. Louis County and its municipalities became the most racially integrated in St. Louis." Did I read what you wrote correctly? A. Yes. Q. And you have a footnote here, and for your citation to for your support for this proposition, and that is your blog post in the Washington Post that we discussed earlier today, correct? A. Yes. Q. And just so I understand, is your blog post the citation that you are using to support the proposition that North County municipalities are the most racially integrated in St. Louis? A. Yes. Q. And as we discussed earlier, that blog post compares levels of racial integration in North County municipalities like Ferguson to other municipalities in the St. Louis metro area, correct?
4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	we can have discussion about it, but I viewed an incumbent who did not attract a challenger and who retained their position in office, I view them as a re-elected incumbent, as in fact, technically that's what they are in Ferguson-Florissant. They do not print the ballots and run the election in order to save money, but they are re-elected, it's my understanding of how they how it's considered. Q. Right. So this 70 percent figure, this includes African-American candidates who ascended to office in A. Yes, because if we take I'm sorry. Q. Let me finish. In an uncontested election, correct? A. Yes, because if we take if we take Doris Graham and we ignore the times when she is re-elected without a challenger, this was a very popular board member who is known in the community, did not attract challengers, it really gives us a rather, from my mind,	4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	all-out resistance to school desegregation, and other tools to perpetuate desegregation elsewhere in St. Louis, advocates of desegregation were victorious in North St. Louis County and its municipalities became the most racially integrated in St. Louis." Did I read what you wrote correctly? A. Yes. Q. And you have a footnote here, and for your citation to for your support for this proposition, and that is your blog post in the Washington Post that we discussed earlier today, correct? A. Yes. Q. And just so I understand, is your blog post the citation that you are using to support the proposition that North County municipalities are the most racially integrated in St. Louis? A. Yes. Q. And as we discussed earlier, that blog post compares levels of racial integration in North County municipalities like Ferguson to other municipalities in

	Page 297		Page 299
1	in North County municipalities to areas outside of St.	1	areas with relatively low income, correct?
2	Louis, correct?	2	One can only communicate so many things in a
3	A. That's correct.	3	map. It would be too messy to include that, yes.
4	Q. And in this paragraph you are not drawing any	4	Q. But we don't know that from looking at this
5	comparison to the level of integration in North County St.	5	map, the percentage of African-Americans who live in
6	Louis to areas outside of St. Louis, correct?	6	higher income areas as opposed to the percentage who live
7	A. I would be happy to provide additional	7	in lower income areas, correct?
8	information about similar data for other communities. In	8	A. The map does not communicate that, that's
9	fact, I have done such analysis. The communities of North	9	correct.
10	St. Louis are integrated by any standard in the United	10	Q. And it doesn't communicate relative
11	States.	11	differences between African-Americans and whites in terms
12	Q. Okay. But you didn't present any comparative	12	of who lives in what percentage of those groups lives
13	estimates of the levels of racial integration in North	13	in higher income as opposed to lower income areas,
14	County in any of your reports to similar municipalities	14	correct?
15	outside of the St. Louis area, correct, Dr. Rodden?	15	A. That's correct. However, the variation in
16	A. That's correct. But again, I would be happy	16	population density across census block groups in
17	to conduct that analysis in the future if it would be	17	Ferguson-Florissant is not all that great. I mean a
18	useful to the Court.	18	reader would need to know where the airport is and would
19	Q. Page 11 in your report contains a Figure 1,	19	want to make sure they didn't get confused about that, but
20	and am I correct that this figure depicts black and white	20	beyond that, I think one can scan back and forth, and the
21	household income in relation to distance from the city	21	vast majority of the space of the district is taken up
22	center in metro St. Louis?	22	with single family houses. There are a few spots in which
23	A. Yes.	23	there are apartment complexes, and those are actually
24	Q. And no matter how far you get between zero and	24	discussed in the text, but for the most part, when one
25	40 kilometers well, I'm sorry. Let me back up. When	25	looks at this map, discounting the airport, one can make
	Page 298		Page 300
1	you get from zero to 40 kilometers away from the city	1	useful comparisons and realize that they're not
2	center, as a general matter, I know there's some downward	2	misunderstanding where the human beings are, if that's the
3	slope early on, but as a general matter, income rises for	3	problem.
4	both whites and blacks; is that correct?	4	Q. On page can we turn to Page 16 of your
5	A. Yes.	5	report, and I'm looking at Paragraph 32. The second
6	Q. But regardless of how far away you get from	6	sentence in your report represents that median household
7	the city center of St. Louis, there is always an income	7	income for African-Americans in the Ferguson-Florissant
8	gap between blacks and whites, correct?	8	school distinct is lower than white median household
9	A. Unfortunately, that is the case.	9	income by about \$14,000 per year; is that correct?
10	Q. And, roughly, do you know how far away	10	A. That's correct. That is but I should be
11	Ferguson-Florissant is from the city center?	11	clear. This is based on aggregate household income for
12		12	
	A. I would have to guess, and I don't want to	12	the school district. As the map makes clear, there are
13	A. I would have to guess, and I don't want to guess under oath.	13	the school district. As the map makes clear, there are lots of block groups, especially integrated neighborhoods
	-		•
13	guess under oath.	13	lots of block groups, especially integrated neighborhoods
13 14	guess under oath. Q. That's okay. If you don't know, that's okay.	13 14	lots of block groups, especially integrated neighborhoods in Florissant, where the income has converged and there's
13 14 15	guess under oath. Q. That's okay. If you don't know, that's okay. A. Yeah.	13 14 15	lots of block groups, especially integrated neighborhoods in Florissant, where the income has converged and there's very little difference.
13 14 15 16	guess under oath. Q. That's okay. If you don't know, that's okay. A. Yeah. Q. Now, let's look at Page 12, Figure 2, median	13 14 15 16	lots of block groups, especially integrated neighborhoods in Florissant, where the income has converged and there's very little difference. Q. Let's look at Page 17, Figure 3. This reports
13 14 15 16 17	guess under oath. Q. That's okay. If you don't know, that's okay. A. Yeah. Q. Now, let's look at Page 12, Figure 2, median household income for African-American and white	13 14 15 16 17	lots of block groups, especially integrated neighborhoods in Florissant, where the income has converged and there's very little difference. Q. Let's look at Page 17, Figure 3. This reports various gaps between blacks and whites on certain
13 14 15 16 17	guess under oath. Q. That's okay. If you don't know, that's okay. A. Yeah. Q. Now, let's look at Page 12, Figure 2, median household income for African-American and white households.	13 14 15 16 17 18	lots of block groups, especially integrated neighborhoods in Florissant, where the income has converged and there's very little difference. Q. Let's look at Page 17, Figure 3. This reports various gaps between blacks and whites on certain socioeconomic factors, correct?
13 14 15 16 17 18 19	guess under oath. Q. That's okay. If you don't know, that's okay. A. Yeah. Q. Now, let's look at Page 12, Figure 2, median household income for African-American and white households. A. Yes.	13 14 15 16 17 18 19	lots of block groups, especially integrated neighborhoods in Florissant, where the income has converged and there's very little difference. Q. Let's look at Page 17, Figure 3. This reports various gaps between blacks and whites on certain socioeconomic factors, correct? A. Yes.
13 14 15 16 17 18 19 20	guess under oath. Q. That's okay. If you don't know, that's okay. A. Yeah. Q. Now, let's look at Page 12, Figure 2, median household income for African-American and white households. A. Yes. Q. Now, just to be clear, these two maps do not	13 14 15 16 17 18 19 20	lots of block groups, especially integrated neighborhoods in Florissant, where the income has converged and there's very little difference. Q. Let's look at Page 17, Figure 3. This reports various gaps between blacks and whites on certain socioeconomic factors, correct? A. Yes. Q. And within the Ferguson-Florissant school
13 14 15 16 17 18 19 20 21	guess under oath. Q. That's okay. If you don't know, that's okay. A. Yeah. Q. Now, let's look at Page 12, Figure 2, median household income for African-American and white households. A. Yes. Q. Now, just to be clear, these two maps do not account for population density; is that correct?	13 14 15 16 17 18 19 20 21	lots of block groups, especially integrated neighborhoods in Florissant, where the income has converged and there's very little difference. Q. Let's look at Page 17, Figure 3. This reports various gaps between blacks and whites on certain socioeconomic factors, correct? A. Yes. Q. And within the Ferguson-Florissant school district, you agree that blacks have a lower rate than
13 14 15 16 17 18 19 20 21 22 23 24	guess under oath. Q. That's okay. If you don't know, that's okay. A. Yeah. Q. Now, let's look at Page 12, Figure 2, median household income for African-American and white households. A. Yes. Q. Now, just to be clear, these two maps do not account for population density; is that correct? A. That's correct. Q. So we don't know, looking at these two maps, how many African-Americans are in the areas with roughly	13 14 15 16 17 18 19 20 21 22 23 24	lots of block groups, especially integrated neighborhoods in Florissant, where the income has converged and there's very little difference. Q. Let's look at Page 17, Figure 3. This reports various gaps between blacks and whites on certain socioeconomic factors, correct? A. Yes. Q. And within the Ferguson-Florissant school district, you agree that blacks have a lower rate than whites of attaining a bachelor's degree, correct? A. Yes. Q. And within the Ferguson-Florissant school
13 14 15 16 17 18 19 20 21 22 23	guess under oath. Q. That's okay. If you don't know, that's okay. A. Yeah. Q. Now, let's look at Page 12, Figure 2, median household income for African-American and white households. A. Yes. Q. Now, just to be clear, these two maps do not account for population density; is that correct? A. That's correct. Q. So we don't know, looking at these two maps,	13 14 15 16 17 18 19 20 21 22 23	lots of block groups, especially integrated neighborhoods in Florissant, where the income has converged and there's very little difference. Q. Let's look at Page 17, Figure 3. This reports various gaps between blacks and whites on certain socioeconomic factors, correct? A. Yes. Q. And within the Ferguson-Florissant school district, you agree that blacks have a lower rate than whites of attaining a bachelor's degree, correct? A. Yes.

	Page 301		Page 303
1	than whites, correct?	1	voting age, correct?
2	A. Correct.	2	A. Yes.
3	Q. And you agree that within the	3	Q. And the column black 18-plus is the column for
4	Ferguson-Florissant school district, blacks have a higher	4	black alone voting age individuals in the
5	rate than whites of being a SNAP or food stamps recipient,	5	Ferguson-Florissant school district, correct?
6	correct?	6	A. Yes.
7	A. Correct.	7	Q. And what you're reporting here for the most
8	Q. And you agree that within the	8	recent year that is not a projection, the year 2012, is
9	Ferguson-Florissant school district, blacks have a higher	9	that there are 24,313 blacks of voting age population in
10	unemployment rate as compared to whites, correct?	10	the Ferguson-Florissant school district, correct?
11	A. Correct.	11	A. Yes, correct.
12	Q. I want to go back to something we talked about	12	Q. And the third category of people is at the
13	earlier, Dr. Rodden. I don't have very much left today,	13	very back of this spreadsheet under Other 18-plus, that
14	but I just want to clarify something, and that's what we	14	column, correct? These are people who are neither white
15	labeled Rodden Exhibit 9. This was the spreadsheet with	15	alone nor black alone, correct?
16	the population figures corresponding to, I think, Figure 3	16	A. Correct.
17	in your report. Just let me know when you have that and	17	Q. And you report 956 individuals of voting age
18	you're ready to discuss that.	18	population within that category, correct?
19	A. I have it. Okay.	19	A. In my initial report, yes, and I would want
20	Q. All right. So we discussed the fact that the	20	to
21	fifth line down is what you're reporting as the voting age	21	Q. Sure. Now, the information presented here
22	population in 2012 using the ACS estimates, correct, Dr.	22	which your initial report is based on
23	Rodden?	23	A. Yes.
24	A. Yes.	24	Q doesn't allow us to ascertain how many
25	Q. And after 2012, starting with 2013, sixth row	25	people in this Other 18-plus category are part
	Page 302		Page 304
1	down, those are your projections based on the ACS,	1	African-American, correct?
2	correct, Dr. Rodden?	2	A. Not directly.
3	A. Yes.	3	Q. Okay. So there's no information directly in
4	Q. And that's also true for 2013, it's based on	4	this chart that tells us how many people of voting age
5	projections, correct? Sorry. That should say 2014,	5	population are part black, correct?
6	shouldn't it?	6	A. No. That inference is drawn in my
7	A. Yeah. The ACS with a center year of 2014.	7	supplemental report, not my initial report.
8	Q. And that's based on your projections from the	8	Q. Right. And we'll get to your supplemental
9	ACS, correct?	9	report in a second.
10	A. I just want to be clear I'm making sense here.	10	A. Okay.
11	Q. The second to last row. That should say 2014.	11	Q. Let's just talk about what's presented here.
12	A. Yeah. That is a projection for the year 2014.	12	A. Uh-huh.
13	Q. Right. And 2015, that's your projection for	13	Q. According to the 2012 ACS sorry. According
	the year 2015, correct?	14	to your representation of what the voting age population
14	A. Yes.	15	looks like in 2012, right, which is based on the ACS
14 15	7 103.	1	rather than a linear projection
	Q. So the most recent year represented on this	16	
15 16		16	A. Uh-huh.
15 16	Q. So the most recent year represented on this		A. Uh-huh.Q. I've stated that correctly so far, right, Dr.
15 16 17	Q. So the most recent year represented on this spreadsheet that is not a projection is the year 2012,	17	
15 16 17 18 19	Q. So the most recent year represented on this spreadsheet that is not a projection is the year 2012, correct?	17 18	Q. I've stated that correctly so far, right, Dr.
15 16 17 18 19 20	Q. So the most recent year represented on this spreadsheet that is not a projection is the year 2012, correct? A. Correct.	17 18 19	Q. I've stated that correctly so far, right, Dr. Rodden?
15 16 17 18 19 20 21	 Q. So the most recent year represented on this spreadsheet that is not a projection is the year 2012, correct? A. Correct. Q. And we explained, I think, that the column 	17 18 19 20	Q. I've stated that correctly so far, right, Dr.Rodden?A. Only that it's not just 2012, it's the 2011 to
15 16 17 18 19 20 21 22	 Q. So the most recent year represented on this spreadsheet that is not a projection is the year 2012, correct? A. Correct. Q. And we explained, I think, that the column white 18-plus is the voting age population for people who 	17 18 19 20 21	 Q. I've stated that correctly so far, right, Dr. Rodden? A. Only that it's not just 2012, it's the 2011 to 2013 sample.
16 17 18 19	 Q. So the most recent year represented on this spreadsheet that is not a projection is the year 2012, correct? A. Correct. Q. And we explained, I think, that the column white 18-plus is the voting age population for people who are white alone, correct? 	17 18 19 20 21 22	 Q. I've stated that correctly so far, right, Dr. Rodden? A. Only that it's not just 2012, it's the 2011 to 2013 sample. Q. But it's based on

1	Page 305		Page 307
_	Q. What you represent as the voting age	1	population who are mixed race or other in the
2	population of the Ferguson-Florissant school district in	2	Ferguson-Florissant school district in 2012 are part
3	2012 is based on data from the American Community Survey,	3	African-American, correct, Dr. Rodden?
4	correct?	4	A. We do not have a direct measure of that, but
5	A. Yes.	5	we have ample opportunity to estimate and that's the best
6	Q. And what you represent as the voting age	6	we can do.
7	population after 2012, 13, and beyond, is based on your	7	Q. Right. So you try to estimate this in your
8	linear projections of the ACS, correct?	8	supplemental report in response to Mr. Cooper's report,
9	A. Yes.	9	correct, Dr. Rodden?
10	Q. And if we look at what you report as the	10	A. Yes.
11	voting age population of the Ferguson-Florissant school	11	Q. And I believe that was marked yesterday as
12	district in 2012, I believe your testimony earlier was	12	Chen Exhibit A, which should be to your left over there on
13	that a minority of the population, that is less than 50	13	top.
14	percent of the voting age population, consisted of	14	A. I might ask if this might be a good time for a
15	individuals who were black alone, correct?	15	break for others. I don't know how much longer we have
16	A. I believe we came up with a 49.8 or something	16	Q. We don't have much, but we do have some, so,
17	like that, so yes.	17	you know, I probably have about 30 minutes more. We can
18	Q. Okay. And we don't know, of the remaining	18	take a break now or we could just power through, whatever
19	individuals, based on what you present here, how many of	19	you all prefer.
20	those individuals might be part African-American, correct,	20	MS. ORMSBY: What do you prefer?
21	Dr. Rodden?	21	A. I would prefer a very short break just for the
22	A. From my initial report no information is	22	restroom.
23	provided about that, in my initial report.	23	(Whereupon, a recess was taken from 6:00 to 6:05
24	Q. Okay. So the ACS data does not directly tell	24	P.M.)
25	us how many voting age individuals in the	25	Q. I want to ask you about Chen Exhibit A, which
	Page 306		Page 308
1	Ferguson-Florissant school district are part	1	in the assemblemental assemble between and Dr. Ohan
2	African-American, correct?		is the supplemental report that you and Dr. Chen
	Allican-American, correct.	2	co-authored in response to Professor Cooper's report in
3	A. It does not directly tell us that, that is	2 3	• • • • • • • • • • • • • • • • • • • •
3 4		1	co-authored in response to Professor Cooper's report in
	A. It does not directly tell us that, that is	3	co-authored in response to Professor Cooper's report in this case, okay?
4	A. It does not directly tell us that, that is correct.	3 4	co-authored in response to Professor Cooper's report in this case, okay? A. Yes.
4 5	A. It does not directly tell us that, that is correct. Q. Okay. So the only direct information that we	3 4 5	co-authored in response to Professor Cooper's report in this case, okay? A. Yes. Q. And for the record, this is your report dated
4 5 6	A. It does not directly tell us that, that is correct. Q. Okay. So the only direct information that we have from the ACS is that as of 2012, using the three-year.	3 4 5 6	co-authored in response to Professor Cooper's report in this case, okay? A. Yes. Q. And for the record, this is your report dated July 2nd, 2015?
4 5 6 7	A. It does not directly tell us that, that is correct. Q. Okay. So the only direct information that we have from the ACS is that as of 2012, using the three-year estimate, individuals who are black alone are a minority	3 4 5 6 7	co-authored in response to Professor Cooper's report in this case, okay? A. Yes. Q. And for the record, this is your report dated July 2nd, 2015? A. Correct.
4 5 6 7 8	A. It does not directly tell us that, that is correct. Q. Okay. So the only direct information that we have from the ACS is that as of 2012, using the three-year estimate, individuals who are black alone are a minority of the voting age population of the district, and we don't	3 4 5 6 7 8	co-authored in response to Professor Cooper's report in this case, okay? A. Yes. Q. And for the record, this is your report dated July 2nd, 2015? A. Correct. Q. And you signed it, right, Dr. Rodden?
4 5 6 7 8	A. It does not directly tell us that, that is correct. Q. Okay. So the only direct information that we have from the ACS is that as of 2012, using the three-year estimate, individuals who are black alone are a minority of the voting age population of the district, and we don't know anything about how many individuals who are	3 4 5 6 7 8 9	co-authored in response to Professor Cooper's report in this case, okay? A. Yes. Q. And for the record, this is your report dated July 2nd, 2015? A. Correct. Q. And you signed it, right, Dr. Rodden? A. Yes. Q. Okay. Now, I want to ask you about Page 4, Table 1.
4 5 6 7 8 9 10 11	A. It does not directly tell us that, that is correct. Q. Okay. So the only direct information that we have from the ACS is that as of 2012, using the three-year estimate, individuals who are black alone are a minority of the voting age population of the district, and we don't know anything about how many individuals who are multi-race or other are African-American, correct?	3 4 5 6 7 8 9 10 11 12	co-authored in response to Professor Cooper's report in this case, okay? A. Yes. Q. And for the record, this is your report dated July 2nd, 2015? A. Correct. Q. And you signed it, right, Dr. Rodden? A. Yes. Q. Okay. Now, I want to ask you about Page 4,
4 5 6 7 8 9 10 11 12 13	A. It does not directly tell us that, that is correct. Q. Okay. So the only direct information that we have from the ACS is that as of 2012, using the three-year estimate, individuals who are black alone are a minority of the voting age population of the district, and we don't know anything about how many individuals who are multi-race or other are African-American, correct? A. They fall short of single race African-Americans fall short of majority status by a very small number of individuals. We do know we do have an	3 4 5 6 7 8 9 10 11 12 13	co-authored in response to Professor Cooper's report in this case, okay? A. Yes. Q. And for the record, this is your report dated July 2nd, 2015? A. Correct. Q. And you signed it, right, Dr. Rodden? A. Yes. Q. Okay. Now, I want to ask you about Page 4, Table 1. A. Yes. Q. Now, this table presents some data
4 5 6 7 8 9 10 11 12 13	A. It does not directly tell us that, that is correct. Q. Okay. So the only direct information that we have from the ACS is that as of 2012, using the three-year estimate, individuals who are black alone are a minority of the voting age population of the district, and we don't know anything about how many individuals who are multi-race or other are African-American, correct? A. They fall short of single race African-Americans fall short of majority status by a very small number of individuals. We do know we do have an estimate of the number of people who are in the in the	3 4 5 6 7 8 9 10 11 12 13	co-authored in response to Professor Cooper's report in this case, okay? A. Yes. Q. And for the record, this is your report dated July 2nd, 2015? A. Correct. Q. And you signed it, right, Dr. Rodden? A. Yes. Q. Okay. Now, I want to ask you about Page 4, Table 1. A. Yes. Q. Now, this table presents some data MS. ORMSBY: I'm sorry. Can I what are we
4 5 6 7 8 9 10 11 12 13 14	A. It does not directly tell us that, that is correct. Q. Okay. So the only direct information that we have from the ACS is that as of 2012, using the three-year estimate, individuals who are black alone are a minority of the voting age population of the district, and we don't know anything about how many individuals who are multi-race or other are African-American, correct? A. They fall short of single race African-Americans fall short of majority status by a very small number of individuals. We do know we do have an estimate of the number of people who are in the in the other category, and we do know that the majority of them	3 4 5 6 7 8 9 10 11 12 13 14 15	co-authored in response to Professor Cooper's report in this case, okay? A. Yes. Q. And for the record, this is your report dated July 2nd, 2015? A. Correct. Q. And you signed it, right, Dr. Rodden? A. Yes. Q. Okay. Now, I want to ask you about Page 4, Table 1. A. Yes. Q. Now, this table presents some data MS. ORMSBY: I'm sorry. Can I what are we on? I lost it there for a second.
4 5 6 7 8 9 10 11 12 13 14 15	A. It does not directly tell us that, that is correct. Q. Okay. So the only direct information that we have from the ACS is that as of 2012, using the three-year estimate, individuals who are black alone are a minority of the voting age population of the district, and we don't know anything about how many individuals who are multi-race or other are African-American, correct? A. They fall short of single race African-Americans fall short of majority status by a very small number of individuals. We do know we do have an estimate of the number of people who are in the in the other category, and we do know that the majority of them are some part African-American.	3 4 5 6 7 8 9 10 11 12 13 14 15 16	co-authored in response to Professor Cooper's report in this case, okay? A. Yes. Q. And for the record, this is your report dated July 2nd, 2015? A. Correct. Q. And you signed it, right, Dr. Rodden? A. Yes. Q. Okay. Now, I want to ask you about Page 4, Table 1. A. Yes. Q. Now, this table presents some data MS. ORMSBY: I'm sorry. Can I what are we on? I lost it there for a second. MR. HO: Oh, sure. It's Chen Exhibit A. This
4 5 6 7 8 9 10 11 12 13 14 15 16	A. It does not directly tell us that, that is correct. Q. Okay. So the only direct information that we have from the ACS is that as of 2012, using the three-year estimate, individuals who are black alone are a minority of the voting age population of the district, and we don't know anything about how many individuals who are multi-race or other are African-American, correct? A. They fall short of single race African-Americans fall short of majority status by a very small number of individuals. We do know we do have an estimate of the number of people who are in the in the other category, and we do know that the majority of them are some part African-American. Q. Well, that's not presented directly	3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	co-authored in response to Professor Cooper's report in this case, okay? A. Yes. Q. And for the record, this is your report dated July 2nd, 2015? A. Correct. Q. And you signed it, right, Dr. Rodden? A. Yes. Q. Okay. Now, I want to ask you about Page 4, Table 1. A. Yes. Q. Now, this table presents some data MS. ORMSBY: I'm sorry. Can I what are we on? I lost it there for a second. MR. HO: Oh, sure. It's Chen Exhibit A. This is the supplemental report. We provided you with a copy
4 5 6 7 8 9 10 11 12 13 14 15 16 17	A. It does not directly tell us that, that is correct. Q. Okay. So the only direct information that we have from the ACS is that as of 2012, using the three-year estimate, individuals who are black alone are a minority of the voting age population of the district, and we don't know anything about how many individuals who are multi-race or other are African-American, correct? A. They fall short of single race African-Americans fall short of majority status by a very small number of individuals. We do know we do have an estimate of the number of people who are in the in the other category, and we do know that the majority of them are some part African-American. Q. Well, that's not presented directly A. That's correct.	3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	co-authored in response to Professor Cooper's report in this case, okay? A. Yes. Q. And for the record, this is your report dated July 2nd, 2015? A. Correct. Q. And you signed it, right, Dr. Rodden? A. Yes. Q. Okay. Now, I want to ask you about Page 4, Table 1. A. Yes. Q. Now, this table presents some data MS. ORMSBY: I'm sorry. Can I what are we on? I lost it there for a second. MR. HO: Oh, sure. It's Chen Exhibit A. This is the supplemental report. We provided you with a copy of it yesterday.
4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	A. It does not directly tell us that, that is correct. Q. Okay. So the only direct information that we have from the ACS is that as of 2012, using the three-year estimate, individuals who are black alone are a minority of the voting age population of the district, and we don't know anything about how many individuals who are multi-race or other are African-American, correct? A. They fall short of single race African-Americans fall short of majority status by a very small number of individuals. We do know we do have an estimate of the number of people who are in the in the other category, and we do know that the majority of them are some part African-American. Q. Well, that's not presented directly A. That's correct. Q in the census data?	3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	co-authored in response to Professor Cooper's report in this case, okay? A. Yes. Q. And for the record, this is your report dated July 2nd, 2015? A. Correct. Q. And you signed it, right, Dr. Rodden? A. Yes. Q. Okay. Now, I want to ask you about Page 4, Table 1. A. Yes. Q. Now, this table presents some data MS. ORMSBY: I'm sorry. Can I what are we on? I lost it there for a second. MR. HO: Oh, sure. It's Chen Exhibit A. This is the supplemental report. We provided you with a copy of it yesterday. MS. ORMSBY: I wasn't here yesterday, so I
4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	A. It does not directly tell us that, that is correct. Q. Okay. So the only direct information that we have from the ACS is that as of 2012, using the three-year estimate, individuals who are black alone are a minority of the voting age population of the district, and we don't know anything about how many individuals who are multi-race or other are African-American, correct? A. They fall short of single race African-Americans fall short of majority status by a very small number of individuals. We do know we do have an estimate of the number of people who are in the in the other category, and we do know that the majority of them are some part African-American. Q. Well, that's not presented directly A. That's correct. Q in the census data? A. We know that from other we know that from	3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	co-authored in response to Professor Cooper's report in this case, okay? A. Yes. Q. And for the record, this is your report dated July 2nd, 2015? A. Correct. Q. And you signed it, right, Dr. Rodden? A. Yes. Q. Okay. Now, I want to ask you about Page 4, Table 1. A. Yes. Q. Now, this table presents some data MS. ORMSBY: I'm sorry. Can I what are we on? I lost it there for a second. MR. HO: Oh, sure. It's Chen Exhibit A. This is the supplemental report. We provided you with a copy of it yesterday. MS. ORMSBY: I wasn't here yesterday, so I don't have a copy of it.
4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	A. It does not directly tell us that, that is correct. Q. Okay. So the only direct information that we have from the ACS is that as of 2012, using the three-year estimate, individuals who are black alone are a minority of the voting age population of the district, and we don't know anything about how many individuals who are multi-race or other are African-American, correct? A. They fall short of single race African-Americans fall short of majority status by a very small number of individuals. We do know we do have an estimate of the number of people who are in the in the other category, and we do know that the majority of them are some part African-American. Q. Well, that's not presented directly A. That's correct. Q in the census data? A. We know that from other we know that from other from the overall population, not from the age	3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	co-authored in response to Professor Cooper's report in this case, okay? A. Yes. Q. And for the record, this is your report dated July 2nd, 2015? A. Correct. Q. And you signed it, right, Dr. Rodden? A. Yes. Q. Okay. Now, I want to ask you about Page 4, Table 1. A. Yes. Q. Now, this table presents some data MS. ORMSBY: I'm sorry. Can I what are we on? I lost it there for a second. MR. HO: Oh, sure. It's Chen Exhibit A. This is the supplemental report. We provided you with a copy of it yesterday. MS. ORMSBY: I wasn't here yesterday, so I don't have a copy of it. MS. GABEL: I'll look and
4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	A. It does not directly tell us that, that is correct. Q. Okay. So the only direct information that we have from the ACS is that as of 2012, using the three-year estimate, individuals who are black alone are a minority of the voting age population of the district, and we don't know anything about how many individuals who are multi-race or other are African-American, correct? A. They fall short of single race African-Americans fall short of majority status by a very small number of individuals. We do know we do have an estimate of the number of people who are in the in the other category, and we do know that the majority of them are some part African-American. Q. Well, that's not presented directly A. That's correct. Q in the census data? A. We know that from other we know that from other from the overall population, not from the age breakdowns.	3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	co-authored in response to Professor Cooper's report in this case, okay? A. Yes. Q. And for the record, this is your report dated July 2nd, 2015? A. Correct. Q. And you signed it, right, Dr. Rodden? A. Yes. Q. Okay. Now, I want to ask you about Page 4, Table 1. A. Yes. Q. Now, this table presents some data MS. ORMSBY: I'm sorry. Can I what are we on? I lost it there for a second. MR. HO: Oh, sure. It's Chen Exhibit A. This is the supplemental report. We provided you with a copy of it yesterday. MS. ORMSBY: I wasn't here yesterday, so I don't have a copy of it. MS. GABEL: I'll look and MS. ORMSBY: I'm sorry.
4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	A. It does not directly tell us that, that is correct. Q. Okay. So the only direct information that we have from the ACS is that as of 2012, using the three-year estimate, individuals who are black alone are a minority of the voting age population of the district, and we don't know anything about how many individuals who are multi-race or other are African-American, correct? A. They fall short of single race African-Americans fall short of majority status by a very small number of individuals. We do know we do have an estimate of the number of people who are in the in the other category, and we do know that the majority of them are some part African-American. Q. Well, that's not presented directly A. That's correct. Q in the census data? A. We know that from other we know that from other from the overall population, not from the age breakdowns. Q. Right. We don't know any direct information	3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	co-authored in response to Professor Cooper's report in this case, okay? A. Yes. Q. And for the record, this is your report dated July 2nd, 2015? A. Correct. Q. And you signed it, right, Dr. Rodden? A. Yes. Q. Okay. Now, I want to ask you about Page 4, Table 1. A. Yes. Q. Now, this table presents some data MS. ORMSBY: I'm sorry. Can I what are we on? I lost it there for a second. MR. HO: Oh, sure. It's Chen Exhibit A. This is the supplemental report. We provided you with a copy of it yesterday. MS. ORMSBY: I wasn't here yesterday, so I don't have a copy of it. MS. GABEL: I'll look and MS. ORMSBY: I'm sorry. MR. HO: No, it's okay. I didn't bring an
4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	A. It does not directly tell us that, that is correct. Q. Okay. So the only direct information that we have from the ACS is that as of 2012, using the three-year estimate, individuals who are black alone are a minority of the voting age population of the district, and we don't know anything about how many individuals who are multi-race or other are African-American, correct? A. They fall short of single race African-Americans fall short of majority status by a very small number of individuals. We do know we do have an estimate of the number of people who are in the in the other category, and we do know that the majority of them are some part African-American. Q. Well, that's not presented directly A. That's correct. Q in the census data? A. We know that from other we know that from other from the overall population, not from the age breakdowns.	3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	co-authored in response to Professor Cooper's report in this case, okay? A. Yes. Q. And for the record, this is your report dated July 2nd, 2015? A. Correct. Q. And you signed it, right, Dr. Rodden? A. Yes. Q. Okay. Now, I want to ask you about Page 4, Table 1. A. Yes. Q. Now, this table presents some data MS. ORMSBY: I'm sorry. Can I what are we on? I lost it there for a second. MR. HO: Oh, sure. It's Chen Exhibit A. This is the supplemental report. We provided you with a copy of it yesterday. MS. ORMSBY: I wasn't here yesterday, so I don't have a copy of it. MS. GABEL: I'll look and MS. ORMSBY: I'm sorry.

Page 311 Page 309 MS. ORMSBY: I'm sorry. I probably have that 1 report by the American Community Survey, correct, Dr. in my folder. I didn't know what I was looking at. 2 Rodden? 2 3 MR. HO: That's okay. Can we continue? 3 A. Not directly. It comes from an application of 4 MS. ORMSBY: Yes, please. 4 the -- it comes from an effort to understand what the 5 Q. Great. So I'm looking at Page 3, Table 1, and 5 share of that other category is someone who is reporting in this table you present some information about the 6 6 more than one race and one of those is African-American, 7 voting age population of the Ferguson-Florissant school 7 is an attempt to break down the other category, because 8 district, correct? 8 the breakdowns were insufficiently detailed for the task A. Yes. at hand in 2013 over 18 population, it seemed like a very 10 Q. Now, some of the numbers in this table come 10 good assumption to imagine that the over-18 population is 11 directly from the American Community Survey, correct? 11 not different in that breakdown as the overall population. 12 12 In other words, I made the assumption that the 13 13 Q. And some of these numbers are your estimates voting age population and the overall population had 14 based on census data, correct? 14 roughly similar breakdowns of people reporting more than one race who are part African-American. I assumed that 15 A. Yes. I detail that in the rather lengthy 15 16 note, yes. 16 those things were similar, and I had no strong reason to 17 Q. So I just want to unpack it, because it took 17 think that they were not. 18 me a little while to understand it. 18 Q. Okay. So let's unpack this for a second just 19 A. Oh, I'm -- yes, I'm sure. 19 so I understand. You took the total population of Q. But I think I understand it now. When you 20 individuals who are in that Other category, and by total 20 21 report the white alone voting age population in row two of 21 population I mean individuals from, you know, the age of 22 this report as 23,740, that comes directly from the 22 zero to whatever, not just the voting age population, and 23 23 American Community Survey, correct? you were able to ascertain the percentage of those 24 A. Yes 24 individuals who are part African-American, correct? 25 Q. And in line four where you report the voting 25 A. That is available in the -- in the ACS, yes. Page 310 Page 312 1 age population of individuals identifying as 1 Q. Right. And you took that percentage of all 2 African-American alone as 24,313, that also comes directly 2 people, regardless of age, who are two or more races and 3 from the American Community Survey, correct? 3 some part African-American, and you applied that 4 4 A Yes percentage to the voting age population of individuals who 5 Q. Now, in line nine where you report the number 5 are two or more races to get your best estimate of what percentage of those voting age individuals are some part of people who are two or more races and some part 6 6 7 African-American and you report that number as 681 people 7 African-American, correct, Dr. Rodden? 8 A. That's correct. 8 of voting age population, that number does not come 9 directly from the American Community Survey, correct? 9 Q. Okay. It is possible, is it not, Dr. Rodden, 10 A. That is correct, but from the last discussion 10 that there may be more in terms of percentage multi-race 11 we were having about the initial report, we focused on 11 individuals who are -- let me start that again. 12 that final column which was Other 18-plus, and we talked 12 It may be the case that those two percentages 13 about the last number in that column that was from -- that 13 are not identical, right, Dr. Rodden; that there may be a 14 was not projected, that was from the ACS, and that number 14 larger percentage of multi-race individuals who are part 15 was 956. So this number here adds up to 956, so this --15 African-American below the age of 18 as there are 16 16 multi-race individuals who are part African-American above 17 O. Your estimate of that 956 other individuals of 17 the age of 18; that's certainly possible, right, Dr. 18 voting age population who are neither black alone nor 18 Rodden? 19 white alone, your estimate is reported here as 681 of 19 A. I thought a lot about it, and it's possible, 20 those individuals are some part African-American, correct, 20 but given that we know the number for the overall 21 Dr. Rodden? 21 population, it's not as if we only knew the number for the 22 A. Yes. 22 under-18 population. We know the overall population, so 23 Q. And again, that 681 figure of people, of 23 the likelihood that the shares of these groups in the 24 voting age population who are two or more races and some 24 overall population and the over-18 population is radically 25 part African-American, that does not come directly from a 25 different, given that the over-18 population is the

	Page 313		Page 315
1	majority of the population, then it seems unlikely, but I	1	as opposed to
2	will admit that it is it is I can't imagine what the	2	Q. White-Asian union.
3	demographic story would be, but it's possible that the	3	A. Well, there are so few individuals in these
4	demography of mixed race people is extremely unusual in	4	other categories in the Ferguson-Florissant school
5	the Ferguson-Florissant district.	5	district, that I don't think that's an important concern.
6	Q. Well, I'm not talking about	6	It is the case that but when we look at and we have
7	Ferguson-Florissant school district specifically. I just	7	data on people who are some other race I'm sorry. We
8	mean you don't know, do you, whether or not mixed race	8	have data in Table 1 on people who are two or more races,
9	individuals as a group, there are greater percentage of	9	some part African-American, and two or more races who are
10	them who are part African-American below the age of 18 as	10	no part African-American, and the breakdown is 1,564 to
11	opposed to above the age of 18, right, Dr. Rodden? You	11	632, so the overwhelming majority of these people are
12	don't have any information one way or the other on that	12	who are reporting more than one race have African-American
13	question, correct?	13	as one of the races.
14	A. That is the area where I made an assumption,	14	If the question is about whether some of those
15	and that assumption certainly can be criticized, but it	15	African-Americans are married to non-whites, I'm not sure
16	should be criticized with some if we're going to back	16	how that affects the inferences I'm drawing.
17	away from the conclusion that this group is overwhelmingly	17	Q. Okay. Well, just to be clear on this table,
18	this other group is overwhelmingly part	18	there's no official government data that directly tells us
19	African-American, we would need to base that on something.	19	that African-Americans are a majority of the voting age
20	Q. Have you looked at any statistics on whether	20	population of the Ferguson-Florissant school district,
21	or not, you know, interracial marriage is increasing in	21	right, Dr. Rodden? It's it's the way you get there
22	this country, Dr. Rodden?	22	is by either your linear projections for 2013 and beyond,
23	A. I have not looked at specific statistics, but	23	or your 2012 estimate for how many of the mixed race
24	I that's one of the things I thought about. It does	24	individuals in the American Community Survey are part
25	seem does seem plausible that the rates of	25	African-American, correct, Dr. Rodden?
	Page 314		Page 316
	-		
1	intermarriage are increasing.	1	Correct. My estimate is based on census data.
2	Q. And if the rates of intermarriage are	2	
3			It is not based on some other data. It is merely based on
	increasing, that would mean more mixed race people that	3	the use of data for the overall population of the
4	mixed race individuals would sort of cluster towards the	3 4	the use of data for the overall population of the assumption that it that we can extract from that the
5	mixed race individuals would sort of cluster towards the younger end of the age spectrum, correct, Dr. Rodden?	3 4 5	the use of data for the overall population of the assumption that it that we can extract from that the voting age population that is any part African-American.
5 6	mixed race individuals would sort of cluster towards the younger end of the age spectrum, correct, Dr. Rodden? A. That's exactly the scenario that I've thought	3 4 5 6	the use of data for the overall population of the assumption that it that we can extract from that the voting age population that is any part African-American. Q. But you agree with me, right, Dr. Rodden, that
5 6 7	mixed race individuals would sort of cluster towards the younger end of the age spectrum, correct, Dr. Rodden? A. That's exactly the scenario that I've thought about and that is plausible.	3 4 5 6 7	the use of data for the overall population of the assumption that it that we can extract from that the voting age population that is any part African-American. Q. But you agree with me, right, Dr. Rodden, that there is no census data, decennial or ACS data, that
5 6 7 8	mixed race individuals would sort of cluster towards the younger end of the age spectrum, correct, Dr. Rodden? A. That's exactly the scenario that I've thought about and that is plausible. Q. And have you looked at whether or not rates of	3 4 5 6 7 8	the use of data for the overall population of the assumption that it that we can extract from that the voting age population that is any part African-American. Q. But you agree with me, right, Dr. Rodden, that there is no census data, decennial or ACS data, that directly tells us that African-Americans are a majority of
5 6 7 8 9	mixed race individuals would sort of cluster towards the younger end of the age spectrum, correct, Dr. Rodden? A. That's exactly the scenario that I've thought about and that is plausible. Q. And have you looked at whether or not rates of interracial marriage differ in terms of which members	3 4 5 6 7 8	the use of data for the overall population of the assumption that it that we can extract from that the voting age population that is any part African-American. Q. But you agree with me, right, Dr. Rodden, that there is no census data, decennial or ACS data, that directly tells us that African-Americans are a majority of the voting age population of the Ferguson-Florissant
5 6 7 8 9	mixed race individuals would sort of cluster towards the younger end of the age spectrum, correct, Dr. Rodden? A. That's exactly the scenario that I've thought about and that is plausible. Q. And have you looked at whether or not rates of interracial marriage differ in terms of which members from which groups are marrying across racial lines; that	3 4 5 6 7 8 9	the use of data for the overall population of the assumption that it that we can extract from that the voting age population that is any part African-American. Q. But you agree with me, right, Dr. Rodden, that there is no census data, decennial or ACS data, that directly tells us that African-Americans are a majority of the voting age population of the Ferguson-Florissant school district, correct?
5 6 7 8 9 10 11	mixed race individuals would sort of cluster towards the younger end of the age spectrum, correct, Dr. Rodden? A. That's exactly the scenario that I've thought about and that is plausible. Q. And have you looked at whether or not rates of interracial marriage differ in terms of which members from which groups are marrying across racial lines; that is, you know, Asian or Hispanic, if we take Hispanic to be	3 4 5 6 7 8 9 10	the use of data for the overall population of the assumption that it that we can extract from that the voting age population that is any part African-American. O. But you agree with me, right, Dr. Rodden, that there is no census data, decennial or ACS data, that directly tells us that African-Americans are a majority of the voting age population of the Ferguson-Florissant school district, correct? A. There's no there's no direct measure
5 6 7 8 9 10 11 12	mixed race individuals would sort of cluster towards the younger end of the age spectrum, correct, Dr. Rodden? A. That's exactly the scenario that I've thought about and that is plausible. Q. And have you looked at whether or not rates of interracial marriage differ in terms of which members from which groups are marrying across racial lines; that is, you know, Asian or Hispanic, if we take Hispanic to be a racial group, and white and black, whether or not	3 4 5 6 7 8 9 10 11	the use of data for the overall population of the assumption that it that we can extract from that the voting age population that is any part African-American. Q. But you agree with me, right, Dr. Rodden, that there is no census data, decennial or ACS data, that directly tells us that African-Americans are a majority of the voting age population of the Ferguson-Florissant school district, correct? A. There's no there's no direct measure because of a missing cell in the 2013 ACS data.
5 6 7 8 9 10 11 12	mixed race individuals would sort of cluster towards the younger end of the age spectrum, correct, Dr. Rodden? A. That's exactly the scenario that I've thought about and that is plausible. Q. And have you looked at whether or not rates of interracial marriage differ in terms of which members from which groups are marrying across racial lines; that is, you know, Asian or Hispanic, if we take Hispanic to be a racial group, and white and black, whether or not interracial marriage rates are higher or lower for any of	3 4 5 6 7 8 9 10 11 12 13	the use of data for the overall population of the assumption that it that we can extract from that the voting age population that is any part African-American. Q. But you agree with me, right, Dr. Rodden, that there is no census data, decennial or ACS data, that directly tells us that African-Americans are a majority of the voting age population of the Ferguson-Florissant school district, correct? A. There's no there's no direct measure because of a missing cell in the 2013 ACS data. Q. And when you arrive at your conclusion that
5 6 7 8 9 10 11 12 13	mixed race individuals would sort of cluster towards the younger end of the age spectrum, correct, Dr. Rodden? A. That's exactly the scenario that I've thought about and that is plausible. Q. And have you looked at whether or not rates of interracial marriage differ in terms of which members from which groups are marrying across racial lines; that is, you know, Asian or Hispanic, if we take Hispanic to be a racial group, and white and black, whether or not interracial marriage rates are higher or lower for any of those groups?	3 4 5 6 7 8 9 10 11 12 13 14	the use of data for the overall population of the assumption that it that we can extract from that the voting age population that is any part African-American. Q. But you agree with me, right, Dr. Rodden, that there is no census data, decennial or ACS data, that directly tells us that African-Americans are a majority of the voting age population of the Ferguson-Florissant school district, correct? A. There's no there's no direct measure because of a missing cell in the 2013 ACS data. Q. And when you arrive at your conclusion that African-Americans are a majority of the voting age
5 6 7 8 9 10 11 12 13 14	mixed race individuals would sort of cluster towards the younger end of the age spectrum, correct, Dr. Rodden? A. That's exactly the scenario that I've thought about and that is plausible. Q. And have you looked at whether or not rates of interracial marriage differ in terms of which members from which groups are marrying across racial lines; that is, you know, Asian or Hispanic, if we take Hispanic to be a racial group, and white and black, whether or not interracial marriage rates are higher or lower for any of those groups? A. In the United States or in	3 4 5 6 7 8 9 10 11 12 13 14 15	the use of data for the overall population of the assumption that it that we can extract from that the voting age population that is any part African-American. Q. But you agree with me, right, Dr. Rodden, that there is no census data, decennial or ACS data, that directly tells us that African-Americans are a majority of the voting age population of the Ferguson-Florissant school district, correct? A. There's no there's no direct measure because of a missing cell in the 2013 ACS data. Q. And when you arrive at your conclusion that African-Americans are a majority of the voting age population in the Ferguson-Florissant school district, you
5 6 7 8 9 10 11 12 13 14 15 16	mixed race individuals would sort of cluster towards the younger end of the age spectrum, correct, Dr. Rodden? A. That's exactly the scenario that I've thought about and that is plausible. Q. And have you looked at whether or not rates of interracial marriage differ in terms of which members from which groups are marrying across racial lines; that is, you know, Asian or Hispanic, if we take Hispanic to be a racial group, and white and black, whether or not interracial marriage rates are higher or lower for any of those groups? A. In the United States or in Ferguson-Florissant?	3 4 5 6 7 8 9 10 11 12 13 14 15 16	the use of data for the overall population of the assumption that it that we can extract from that the voting age population that is any part African-American. Q. But you agree with me, right, Dr. Rodden, that there is no census data, decennial or ACS data, that directly tells us that African-Americans are a majority of the voting age population of the Ferguson-Florissant school district, correct? A. There's no there's no direct measure because of a missing cell in the 2013 ACS data. Q. And when you arrive at your conclusion that African-Americans are a majority of the voting age population in the Ferguson-Florissant school district, you do that based on your linear projections and what's
5 6 7 8 9 10 11 12 13 14 15 16	mixed race individuals would sort of cluster towards the younger end of the age spectrum, correct, Dr. Rodden? A. That's exactly the scenario that I've thought about and that is plausible. Q. And have you looked at whether or not rates of interracial marriage differ in terms of which members from which groups are marrying across racial lines; that is, you know, Asian or Hispanic, if we take Hispanic to be a racial group, and white and black, whether or not interracial marriage rates are higher or lower for any of those groups? A. In the United States or in Ferguson-Florissant? Q. Either.	3 4 5 6 7 8 9 10 11 12 13 14 15 16	the use of data for the overall population of the assumption that it that we can extract from that the voting age population that is any part African-American. Q. But you agree with me, right, Dr. Rodden, that there is no census data, decennial or ACS data, that directly tells us that African-Americans are a majority of the voting age population of the Ferguson-Florissant school district, correct? A. There's no there's no direct measure because of a missing cell in the 2013 ACS data. Q. And when you arrive at your conclusion that African-Americans are a majority of the voting age population in the Ferguson-Florissant school district, you do that based on your linear projections and what's presented in Table 1 of your supplemental report with Dr.
5 6 7 8 9 10 11 12 13 14 15 16 17 18	mixed race individuals would sort of cluster towards the younger end of the age spectrum, correct, Dr. Rodden? A. That's exactly the scenario that I've thought about and that is plausible. Q. And have you looked at whether or not rates of interracial marriage differ in terms of which members from which groups are marrying across racial lines; that is, you know, Asian or Hispanic, if we take Hispanic to be a racial group, and white and black, whether or not interracial marriage rates are higher or lower for any of those groups? A. In the United States or in Ferguson-Florissant? Q. Either. A. I would think Ferguson-Florissant would be the	3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	the use of data for the overall population of the assumption that it that we can extract from that the voting age population that is any part African-American. Q. But you agree with me, right, Dr. Rodden, that there is no census data, decennial or ACS data, that directly tells us that African-Americans are a majority of the voting age population of the Ferguson-Florissant school district, correct? A. There's no there's no direct measure because of a missing cell in the 2013 ACS data. Q. And when you arrive at your conclusion that African-Americans are a majority of the voting age population in the Ferguson-Florissant school district, you do that based on your linear projections and what's presented in Table 1 of your supplemental report with Dr. Chen where you estimate the percentage of mixed race
5 6 7 8 9 10 11 12 13 14 15 16 17 18	mixed race individuals would sort of cluster towards the younger end of the age spectrum, correct, Dr. Rodden? A. That's exactly the scenario that I've thought about and that is plausible. Q. And have you looked at whether or not rates of interracial marriage differ in terms of which members from which groups are marrying across racial lines; that is, you know, Asian or Hispanic, if we take Hispanic to be a racial group, and white and black, whether or not interracial marriage rates are higher or lower for any of those groups? A. In the United States or in Ferguson-Florissant? Q. Either. A. I would think Ferguson-Florissant would be the relevant situation for us to talk about, and so have I	3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	the use of data for the overall population of the assumption that it that we can extract from that the voting age population that is any part African-American. Q. But you agree with me, right, Dr. Rodden, that there is no census data, decennial or ACS data, that directly tells us that African-Americans are a majority of the voting age population of the Ferguson-Florissant school district, correct? A. There's no there's no direct measure because of a missing cell in the 2013 ACS data. Q. And when you arrive at your conclusion that African-Americans are a majority of the voting age population in the Ferguson-Florissant school district, you do that based on your linear projections and what's presented in Table 1 of your supplemental report with Dr. Chen where you estimate the percentage of mixed race individuals of voting age who are African-American,
5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	mixed race individuals would sort of cluster towards the younger end of the age spectrum, correct, Dr. Rodden? A. That's exactly the scenario that I've thought about and that is plausible. Q. And have you looked at whether or not rates of interracial marriage differ in terms of which members from which groups are marrying across racial lines; that is, you know, Asian or Hispanic, if we take Hispanic to be a racial group, and white and black, whether or not interracial marriage rates are higher or lower for any of those groups? A. In the United States or in Ferguson-Florissant? Q. Either. A. I would think Ferguson-Florissant would be the relevant situation for us to talk about, and so have I have I thought about or collected information about	3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	the use of data for the overall population of the assumption that it that we can extract from that the voting age population that is any part African-American. Q. But you agree with me, right, Dr. Rodden, that there is no census data, decennial or ACS data, that directly tells us that African-Americans are a majority of the voting age population of the Ferguson-Florissant school district, correct? A. There's no there's no direct measure because of a missing cell in the 2013 ACS data. Q. And when you arrive at your conclusion that African-Americans are a majority of the voting age population in the Ferguson-Florissant school district, you do that based on your linear projections and what's presented in Table 1 of your supplemental report with Dr. Chen where you estimate the percentage of mixed race individuals of voting age who are African-American, correct?
5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	mixed race individuals would sort of cluster towards the younger end of the age spectrum, correct, Dr. Rodden? A. That's exactly the scenario that I've thought about and that is plausible. Q. And have you looked at whether or not rates of interracial marriage differ in terms of which members from which groups are marrying across racial lines; that is, you know, Asian or Hispanic, if we take Hispanic to be a racial group, and white and black, whether or not interracial marriage rates are higher or lower for any of those groups? A. In the United States or in Ferguson-Florissant? Q. Either. A. I would think Ferguson-Florissant would be the relevant situation for us to talk about, and so have I have I thought about or collected information about whether rates of intermarriage are changing over time in a	3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	the use of data for the overall population of the assumption that it that we can extract from that the voting age population that is any part African-American. Q. But you agree with me, right, Dr. Rodden, that there is no census data, decennial or ACS data, that directly tells us that African-Americans are a majority of the voting age population of the Ferguson-Florissant school district, correct? A. There's no there's no direct measure because of a missing cell in the 2013 ACS data. Q. And when you arrive at your conclusion that African-Americans are a majority of the voting age population in the Ferguson-Florissant school district, you do that based on your linear projections and what's presented in Table 1 of your supplemental report with Dr. Chen where you estimate the percentage of mixed race individuals of voting age who are African-American, correct? A. That is correct.
5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	mixed race individuals would sort of cluster towards the younger end of the age spectrum, correct, Dr. Rodden? A. That's exactly the scenario that I've thought about and that is plausible. Q. And have you looked at whether or not rates of interracial marriage differ in terms of which members from which groups are marrying across racial lines; that is, you know, Asian or Hispanic, if we take Hispanic to be a racial group, and white and black, whether or not interracial marriage rates are higher or lower for any of those groups? A. In the United States or in Ferguson-Florissant? Q. Either. A. I would think Ferguson-Florissant would be the relevant situation for us to talk about, and so have I have I thought about or collected information about whether rates of intermarriage are changing over time in a differential way across racial groups, so	3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	the use of data for the overall population of the assumption that it that we can extract from that the voting age population that is any part African-American. Q. But you agree with me, right, Dr. Rodden, that there is no census data, decennial or ACS data, that directly tells us that African-Americans are a majority of the voting age population of the Ferguson-Florissant school district, correct? A. There's no there's no direct measure because of a missing cell in the 2013 ACS data. Q. And when you arrive at your conclusion that African-Americans are a majority of the voting age population in the Ferguson-Florissant school district, you do that based on your linear projections and what's presented in Table 1 of your supplemental report with Dr. Chen where you estimate the percentage of mixed race individuals of voting age who are African-American, correct? A. That is correct. Q. Okay. I just want to move to one last topic,
5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	mixed race individuals would sort of cluster towards the younger end of the age spectrum, correct, Dr. Rodden? A. That's exactly the scenario that I've thought about and that is plausible. Q. And have you looked at whether or not rates of interracial marriage differ in terms of which members from which groups are marrying across racial lines; that is, you know, Asian or Hispanic, if we take Hispanic to be a racial group, and white and black, whether or not interracial marriage rates are higher or lower for any of those groups? A. In the United States or in Ferguson-Florissant? Q. Either. A. I would think Ferguson-Florissant would be the relevant situation for us to talk about, and so have I have I thought about or collected information about whether rates of intermarriage are changing over time in a differential way across racial groups, so Q. Uh-huh. That's my question.	3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	the use of data for the overall population of the assumption that it that we can extract from that the voting age population that is any part African-American. Q. But you agree with me, right, Dr. Rodden, that there is no census data, decennial or ACS data, that directly tells us that African-Americans are a majority of the voting age population of the Ferguson-Florissant school district, correct? A. There's no there's no direct measure because of a missing cell in the 2013 ACS data. Q. And when you arrive at your conclusion that African-Americans are a majority of the voting age population in the Ferguson-Florissant school district, you do that based on your linear projections and what's presented in Table 1 of your supplemental report with Dr. Chen where you estimate the percentage of mixed race individuals of voting age who are African-American, correct? A. That is correct. Q. Okay. I just want to move to one last topic, Dr. Rodden. I want to show you something, and let's mark
5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	mixed race individuals would sort of cluster towards the younger end of the age spectrum, correct, Dr. Rodden? A. That's exactly the scenario that I've thought about and that is plausible. Q. And have you looked at whether or not rates of interracial marriage differ in terms of which members from which groups are marrying across racial lines; that is, you know, Asian or Hispanic, if we take Hispanic to be a racial group, and white and black, whether or not interracial marriage rates are higher or lower for any of those groups? A. In the United States or in Ferguson-Florissant? Q. Either. A. I would think Ferguson-Florissant would be the relevant situation for us to talk about, and so have I have I thought about or collected information about whether rates of intermarriage are changing over time in a differential way across racial groups, so	3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	the use of data for the overall population of the assumption that it that we can extract from that the voting age population that is any part African-American. Q. But you agree with me, right, Dr. Rodden, that there is no census data, decennial or ACS data, that directly tells us that African-Americans are a majority of the voting age population of the Ferguson-Florissant school district, correct? A. There's no there's no direct measure because of a missing cell in the 2013 ACS data. Q. And when you arrive at your conclusion that African-Americans are a majority of the voting age population in the Ferguson-Florissant school district, you do that based on your linear projections and what's presented in Table 1 of your supplemental report with Dr. Chen where you estimate the percentage of mixed race individuals of voting age who are African-American, correct? A. That is correct. Q. Okay. I just want to move to one last topic,

	Page 317		Page 319
1	Q. Rodden Exhibit 21.	1	kind of information about the ideology or partisanship of
2	(Whereupon, Rodden Deposition Exhibit No. 21	2	candidates might make voters more likely to cast a ballot
3	was marked for identification.)	3	for those particular offices?
4	Q. Do you recognize this, Dr. Rodden?	4	A. Yes. It's what we refer to as ballot
5	A. I do.	5	roll-off. We our hypothesis was that ballot roll-off
6	Q. This is from a research project that you	6	would be decreased by providing information about
7	conducted with Dr. Kyle Dropp at Dartmouth and your	7	candidate placement.
8	colleague at Stanford, Adam Bonica, correct?	8	Q. So
9	A. Correct.	9	A. Ideological placement.
10	Q. Now, I'm going to refer to that research	10	Q. So as a political scientist, your view before
11	project as the Montana flyer project, okay?	11	conducting this experiment was giving voters information
12	A. Okay.	12	about the, you know, ideological leanings of a candidate
13	Q. Now, judicial elections in Montana are	13	would make voters more likely to cast a ballot in the
14	non-partisan, correct?	14	elections for which those candidates are running, correct?
15	A. Correct.	15	A. That was a hypothesis that is that exists
16	Q. And this flyer that you and your partners in	16	in the literature that we know very little about, which is
17	your research project created purports to provide	17	why we did the study.
18	information about Montana Supreme Court candidates in	18	Q. Do you have an opinion, prior to conducting
19	terms of their ideology or partisanship, correct?	19	this study, one way or the other, as to whether or not
20	A. It provides information based on their	20	that kind of ideological information about candidates
21	campaign finance collection.	21	would be more or would be more likely to make voters
22	Q. Well, you rank the candidates in this flyer as	22	participate in that election?
23	more liberal or more conservative and closer to Barack	23	A. It was a hypothesis drawn from literature as
24	Obama or Mitt Romney, correct?	24	something that is a kind of folk wisdom that we thought we
25	A. Based on the fact that their donor base is	25	would test. I don't if I have to get back and try to
	Page 318		Page 320
1	further or closer to one of these one of these national	1	remember what level of confidence did I have in the
2	candidates who can all be placed on the same scale, and	2	likelihood that we would get a result, I that's why we
3	this is done by my colleague, Adam Bonica, through	3	do the analysis.
4	analysis of all of the FEC filings.	4	Q. Well, do you have an opinion today, sitting
5	Q. Okay. So just so I understand, you took	5	
		3	here, as to whether or not this kind of information about
6	publicly-available information about campaign	6	here, as to whether or not this kind of information about the ideological leanings of candidates in a non-partisan
6 7	publicly-available information about campaign contributions, and on that basis, placed Montana Supreme	1	
		6	the ideological leanings of candidates in a non-partisan
7	contributions, and on that basis, placed Montana Supreme	6 7	the ideological leanings of candidates in a non-partisan race is likely to increase voter participation in that
7 8	contributions, and on that basis, placed Montana Supreme Court candidates on a scale of more liberal or more	6 7 8	the ideological leanings of candidates in a non-partisan race is likely to increase voter participation in that particular race?
7 8 9	contributions, and on that basis, placed Montana Supreme Court candidates on a scale of more liberal or more conservative or more like Barack Obama or more like Mitt	6 7 8 9	the ideological leanings of candidates in a non-partisan race is likely to increase voter participation in that particular race? A. Well, as you may know, this project has gone
7 8 9 10	contributions, and on that basis, placed Montana Supreme Court candidates on a scale of more liberal or more conservative or more like Barack Obama or more like Mitt Romney, correct?	6 7 8 9 10	the ideological leanings of candidates in a non-partisan race is likely to increase voter participation in that particular race? A. Well, as you may know, this project has gone off the rails and we have not been able to analyze the
7 8 9 10 11	contributions, and on that basis, placed Montana Supreme Court candidates on a scale of more liberal or more conservative or more like Barack Obama or more like Mitt Romney, correct? A. Correct.	6 7 8 9 10 11	the ideological leanings of candidates in a non-partisan race is likely to increase voter participation in that particular race? A. Well, as you may know, this project has gone off the rails and we have not been able to analyze the data that would allow us to draw a firm conclusion. So I
7 8 9 10 11 12 13	contributions, and on that basis, placed Montana Supreme Court candidates on a scale of more liberal or more conservative or more like Barack Obama or more like Mitt Romney, correct? A. Correct. Q. Okay. And am I correct that you wanted to	6 7 8 9 10 11 12 13 14	the ideological leanings of candidates in a non-partisan race is likely to increase voter participation in that particular race? A. Well, as you may know, this project has gone off the rails and we have not been able to analyze the data that would allow us to draw a firm conclusion. So I have not updated my initial kind of open-mindedness and
7 8 9 10 11 12 13	contributions, and on that basis, placed Montana Supreme Court candidates on a scale of more liberal or more conservative or more like Barack Obama or more like Mitt Romney, correct? A. Correct. Q. Okay. And am I correct that you wanted to determine if this information guide, if sending it to	6 7 8 9 10 11 12 13 14	the ideological leanings of candidates in a non-partisan race is likely to increase voter participation in that particular race? A. Well, as you may know, this project has gone off the rails and we have not been able to analyze the data that would allow us to draw a firm conclusion. So I have not updated my initial kind of open-mindedness and questioning attitude about this hypothesis.
7 8 9 10 11 12 13 14 15	contributions, and on that basis, placed Montana Supreme Court candidates on a scale of more liberal or more conservative or more like Barack Obama or more like Mitt Romney, correct? A. Correct. Q. Okay. And am I correct that you wanted to determine if this information guide, if sending it to voters, had an effect on voter behavior? Is that correct, Dr. Rodden? A. We wanted to understand that particular aspect	6 7 8 9 10 11 12 13 14 15 16	the ideological leanings of candidates in a non-partisan race is likely to increase voter participation in that particular race? A. Well, as you may know, this project has gone off the rails and we have not been able to analyze the data that would allow us to draw a firm conclusion. So I have not updated my initial kind of open-mindedness and questioning attitude about this hypothesis. Q. Okay. This flyer bears the official seal of
7 8 9 10 11 12 13 14 15 16	contributions, and on that basis, placed Montana Supreme Court candidates on a scale of more liberal or more conservative or more like Barack Obama or more like Mitt Romney, correct? A. Correct. Q. Okay. And am I correct that you wanted to determine if this information guide, if sending it to voters, had an effect on voter behavior? Is that correct, Dr. Rodden? A. We wanted to understand that particular aspect of voter behavior which is that when one fills out a	6 7 8 9 10 11 12 13 14 15 16	the ideological leanings of candidates in a non-partisan race is likely to increase voter participation in that particular race? A. Well, as you may know, this project has gone off the rails and we have not been able to analyze the data that would allow us to draw a firm conclusion. So I have not updated my initial kind of open-mindedness and questioning attitude about this hypothesis. Q. Okay. This flyer bears the official seal of the State of Montana, correct, Dr. Rodden? A. Unfortunately, it does. Q. You did not work with the State of Montana on
7 8 9 10 11 12 13 14 15 16 17	contributions, and on that basis, placed Montana Supreme Court candidates on a scale of more liberal or more conservative or more like Barack Obama or more like Mitt Romney, correct? A. Correct. Q. Okay. And am I correct that you wanted to determine if this information guide, if sending it to voters, had an effect on voter behavior? Is that correct, Dr. Rodden? A. We wanted to understand that particular aspect of voter behavior which is that when one fills out a ballot which has many races on it, there is a tendency for	6 7 8 9 10 11 12 13 14 15 16 17 18	the ideological leanings of candidates in a non-partisan race is likely to increase voter participation in that particular race? A. Well, as you may know, this project has gone off the rails and we have not been able to analyze the data that would allow us to draw a firm conclusion. So I have not updated my initial kind of open-mindedness and questioning attitude about this hypothesis. Q. Okay. This flyer bears the official seal of the State of Montana, correct, Dr. Rodden? A. Unfortunately, it does. Q. You did not work with the State of Montana on this project, correct?
7 8 9 10 11 12 13 14 15 16 17 18	contributions, and on that basis, placed Montana Supreme Court candidates on a scale of more liberal or more conservative or more like Barack Obama or more like Mitt Romney, correct? A. Correct. Q. Okay. And am I correct that you wanted to determine if this information guide, if sending it to voters, had an effect on voter behavior? Is that correct, Dr. Rodden? A. We wanted to understand that particular aspect of voter behavior which is that when one fills out a ballot which has many races on it, there is a tendency for people to skip the offices about which they have no	6 7 8 9 10 11 12 13 14 15 16 17 18	the ideological leanings of candidates in a non-partisan race is likely to increase voter participation in that particular race? A. Well, as you may know, this project has gone off the rails and we have not been able to analyze the data that would allow us to draw a firm conclusion. So I have not updated my initial kind of open-mindedness and questioning attitude about this hypothesis. Q. Okay. This flyer bears the official seal of the State of Montana, correct, Dr. Rodden? A. Unfortunately, it does. Q. You did not work with the State of Montana on this project, correct? A. No, I did not.
7 8 9 10 11 12 13 14 15 16 17 18 19 20	contributions, and on that basis, placed Montana Supreme Court candidates on a scale of more liberal or more conservative or more like Barack Obama or more like Mitt Romney, correct? A. Correct. Q. Okay. And am I correct that you wanted to determine if this information guide, if sending it to voters, had an effect on voter behavior? Is that correct, Dr. Rodden? A. We wanted to understand that particular aspect of voter behavior which is that when one fills out a ballot which has many races on it, there is a tendency for people to skip the offices about which they have no information, and we were interested in knowing whether	6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	the ideological leanings of candidates in a non-partisan race is likely to increase voter participation in that particular race? A. Well, as you may know, this project has gone off the rails and we have not been able to analyze the data that would allow us to draw a firm conclusion. So I have not updated my initial kind of open-mindedness and questioning attitude about this hypothesis. Q. Okay. This flyer bears the official seal of the State of Montana, correct, Dr. Rodden? A. Unfortunately, it does. Q. You did not work with the State of Montana on this project, correct? A. No, I did not. Q. You did not receive permission from the State
7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	contributions, and on that basis, placed Montana Supreme Court candidates on a scale of more liberal or more conservative or more like Barack Obama or more like Mitt Romney, correct? A. Correct. Q. Okay. And am I correct that you wanted to determine if this information guide, if sending it to voters, had an effect on voter behavior? Is that correct, Dr. Rodden? A. We wanted to understand that particular aspect of voter behavior which is that when one fills out a ballot which has many races on it, there is a tendency for people to skip the offices about which they have no information, and we were interested in knowing whether providing information about the candidates' campaign	6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	the ideological leanings of candidates in a non-partisan race is likely to increase voter participation in that particular race? A. Well, as you may know, this project has gone off the rails and we have not been able to analyze the data that would allow us to draw a firm conclusion. So I have not updated my initial kind of open-mindedness and questioning attitude about this hypothesis. Q. Okay. This flyer bears the official seal of the State of Montana, correct, Dr. Rodden? A. Unfortunately, it does. Q. You did not work with the State of Montana on this project, correct? A. No, I did not. Q. You did not receive permission from the State of Montana before using this official seal from the State
7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	contributions, and on that basis, placed Montana Supreme Court candidates on a scale of more liberal or more conservative or more like Barack Obama or more like Mitt Romney, correct? A. Correct. Q. Okay. And am I correct that you wanted to determine if this information guide, if sending it to voters, had an effect on voter behavior? Is that correct, Dr. Rodden? A. We wanted to understand that particular aspect of voter behavior which is that when one fills out a ballot which has many races on it, there is a tendency for people to skip the offices about which they have no information, and we were interested in knowing whether providing information about the candidates' campaign finance activities was something that would encourage more	6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	the ideological leanings of candidates in a non-partisan race is likely to increase voter participation in that particular race? A. Well, as you may know, this project has gone off the rails and we have not been able to analyze the data that would allow us to draw a firm conclusion. So I have not updated my initial kind of open-mindedness and questioning attitude about this hypothesis. Q. Okay. This flyer bears the official seal of the State of Montana, correct, Dr. Rodden? A. Unfortunately, it does. Q. You did not work with the State of Montana on this project, correct? A. No, I did not. Q. You did not receive permission from the State of Montana before using this official seal from the State of Montana, correct?
7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	contributions, and on that basis, placed Montana Supreme Court candidates on a scale of more liberal or more conservative or more like Barack Obama or more like Mitt Romney, correct? A. Correct. Q. Okay. And am I correct that you wanted to determine if this information guide, if sending it to voters, had an effect on voter behavior? Is that correct, Dr. Rodden? A. We wanted to understand that particular aspect of voter behavior which is that when one fills out a ballot which has many races on it, there is a tendency for people to skip the offices about which they have no information, and we were interested in knowing whether providing information about the candidates' campaign finance activities was something that would encourage more people to fill out their ballot.	6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	the ideological leanings of candidates in a non-partisan race is likely to increase voter participation in that particular race? A. Well, as you may know, this project has gone off the rails and we have not been able to analyze the data that would allow us to draw a firm conclusion. So I have not updated my initial kind of open-mindedness and questioning attitude about this hypothesis. Q. Okay. This flyer bears the official seal of the State of Montana, correct, Dr. Rodden? A. Unfortunately, it does. Q. You did not work with the State of Montana on this project, correct? A. No, I did not. Q. You did not receive permission from the State of Montana before using this official seal from the State of Montana, correct? A. That's correct.
7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	contributions, and on that basis, placed Montana Supreme Court candidates on a scale of more liberal or more conservative or more like Barack Obama or more like Mitt Romney, correct? A. Correct. Q. Okay. And am I correct that you wanted to determine if this information guide, if sending it to voters, had an effect on voter behavior? Is that correct, Dr. Rodden? A. We wanted to understand that particular aspect of voter behavior which is that when one fills out a ballot which has many races on it, there is a tendency for people to skip the offices about which they have no information, and we were interested in knowing whether providing information about the candidates' campaign finance activities was something that would encourage more	6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	the ideological leanings of candidates in a non-partisan race is likely to increase voter participation in that particular race? A. Well, as you may know, this project has gone off the rails and we have not been able to analyze the data that would allow us to draw a firm conclusion. So I have not updated my initial kind of open-mindedness and questioning attitude about this hypothesis. Q. Okay. This flyer bears the official seal of the State of Montana, correct, Dr. Rodden? A. Unfortunately, it does. Q. You did not work with the State of Montana on this project, correct? A. No, I did not. Q. You did not receive permission from the State of Montana before using this official seal from the State of Montana, correct?

	Page 321		Page 323
1	(Whereupon, Rodden Deposition Exhibit No. 22	1	ideology?
2	was marked for identification.)	2	A. We in an effort to avoid affecting the
3	Q. Have you seen this document before, Dr.	3	election result, we attempted to target precincts that we
4	Rodden?	4	had reason to believe were offsetting in their ideological
5	A. Yes, I have.	5	leanings.
6	Q. This is a decision by the Commissioner of	6	Q. So just to be clear, you thought that it was
7	Political Practices of the State of Montana in the matter	7	possible that this would increase voter turnout with
8	of McCulloch v. Stanford and Dartmouth, correct?	8	mailing this flyer, correct?
9	A. I'm not sure what the correct name is for this	9	A. Yes.
10	document. You referred to it as a again?	10	Q. And you tried to send some of these flyers to
11	Q. A decision or a written opinion by the	11	what you thought were liberal-leaning precincts and some
12	Commissioner of Political Practices of the State of	12	flyers that you thought were to conservative-leaning
13	Montana. Does that look correct to you, Dr. Rodden? Is	13	precincts because you didn't want to affect the outcome of
14	that what you understand this to be?	14	the election, correct, Dr. Rodden?
15	A. It is titled here Decision Finding, Sufficient	15	A. Yes.
16	Facts, so yes.	16	Q. And you sent the flyer to more voters living
17	Q. Okay. And it's in the matter of McCulloch v.	17	in what you thought were liberal-leaning precincts because
18	Stanford and Dartmouth, correct?	18	you thought turnout from those precincts would be lower;
19	A. Yes.	19	is that right, Dr. Rodden?
20	Q. And this decision concerns your Montana flyer	20	A. Based on the information we had, yes.
21	project, correct?	21	Q. How did you make that assessment of whether or
22	A. Yes.	22	not a precinct was liberal-leaning or
23	Q. And is it your understanding that the	23	conservative-leaning, and how did you decide how many
24	Commissioner of Political Practices of Montana, among	24	flyers to send to the liberal-leaning precincts as opposed
25	other things, monitors and enforces campaign practices and	25	to the conservative-leaning precincts?
	Page 322		Page 324
1	campaign finance practices in the State of Montana?	1	•
2	A. I'm not fully aware of the his full job	2	You're asking for some details of research design that are not at the top of my mind right now.
3	description, but that sounds about like my	3	Q. If you don't recall, that's perfectly fine.
4	understanding is that's a good description of it.	4	A. I know that we used data the first question
5	Q. And this decision is titled Decision Findings,	5	was how did we make that ascertation, how did we decide
6	Sufficient Facts to Demonstrate a Violation of Montana's	6	which precincts were liberal and which ones were
7	Campaign Practice Laws, correct?	7	conservative. We did that using some data that we
8	A. Yes.	8	received. This was some data that Kyle Dropp received
9	Q. Okay. Now, I want to turn to Page 7 of this	9	that an aggregate score based on, I believe, past
10	decision, and under the header B labeled "The Flyers were	10	precinct-level election results and voter registration
11	election related documents." The first sentence states,	11	data, but I can't I can't recall what other things that
12	"The Montana Flyer Project caused 102,780 postcard mailers	12	might have gone into that index.
13	or flyers to be sent to registered voters in the State of	13	Q. Could you look at Page 5 here, and I'm looking
14	Montana."	14	at the second paragraph, and it reads, "The Commissioner
15	Did I read that correctly?	15	determines that Montana Flyer Project impacted the lives
16	A. Yes.	16	of Montanans through its impact on voting by 102,780
17	Q. So your research involved sending the flyer	17	Montana voters. There is a process by which universities
18	that was marked as Rodden Exhibit 21 to over 100,000	18	and colleges are supposed to review or vet institutional
19	registered voters in the state of Montana, correct?	19	studies that have an impact on human beings. This
20	A. Correct.	20	process, called the Institutional Review Board (IRB)
	Q. And they represent about 15 percent of the	21	process, is defined by federal laws and administered by
21		22	agency located within the US Department of Health and
21 22	electorate in Montana; is that right?	~~	agency located within the 03 Department of fleatin and
	electorate in Montana; is that right? A. Yes.	23	Human Services."
22			
22 23	A. Yes.	23	Human Services."

	Page 325		Page 327
1	Q. Now, we established at the beginning of this	1	Q. You did not engage the IRB process at Stanford
2	deposition, didn't we, Dr. Rodden, that you're familiar	2	prior to conducting this Montana flyer research project,
3	with the ethical standards governing political science	3	correct?
4	research, correct?	4	A. For the reasons that I just described, yes.
5	A. Yes.	5	Q. And Professor Dropp did not submit the final
6	Q. And that includes what's referred to here as	6	version of this flyer to the Dartmouth IRB, correct?
7	the IRB process, correct?	7	A. He received an exemption for the project, and
8	A. Yes.	8	the understanding of an exemption is that when there are
9	Q. And specifically as a political scientist, you	9	changes to the design of something like an instrument,
10	are supposed to engage in the IRB process before engaging	10	those changes did not need to be submitted for approval.
11	in research involving human subjects; is that correct?	11	That was the understanding. That was the
12	A. Yes. There was there was some	12	pretty clear understanding of what exemption means. The
13	misunderstandings about the multi-institutional aspect of	13	previous mock-up of the of the flyer was something that
14	this project, and there has been a process at Stanford of	14	had been produced on PowerPoint on one of our computers
15	trying to understand and trying to come to grips with the	15	and was visually rather unappealing, so that thing was
16	importance of approaching the IRB process separately at	16	sent to a designer to improve the appearance of it, and it
17	every institution that is involved in a multi-institution	17	is through that process in the beautification, if you
18	project.	18	will, of the flyer that the seal was included.
19	A norm had developed, a period of time over	19	Q. Right. And the version with the seal was not
20	time many more projects have become multi-institutional	20	presented to the Dartmouth IRB, correct?
21	collaborations, often with many institutions involved. A	21	A. It was not, but it is not clear to me that
22	norm had developed whereby people started to use only one	22	that is a violation of the protocol when it is an
23	institution, started to approach the IRB to only one	23	exemption.
24	institution. This is something that, unfortunately, many	24	Q. Well, the decision says that the Dartmouth IRB
25	of my colleagues in the social sciences had been doing,	25	process was improperly engaged and ignored at Stanford; is
	Page 326		Page 328
1	and we had come to the misunderstanding that that was	1	that correct?
2	that getting IRB either exemption or approval from one	2	A. That is the assertion on Page 5, and I don't
3	institution was sufficient, and we we learned the hard	3	know whether that is correct.
4	way that this is not viewed as sufficient.	4	Q. Do you dispute the Commissioner's decision
5	So we misunderstood the procedure for	5	here?
6	approaching IRB when multiple institutions are involved,	6	A. Do I dispute the totality of the decision,
7	and I've been part of an effort at Stanford to help make	7	absolutely.
8	clear to future researchers that, at least at Stanford,	8	Q. No. What the Commissioner has written in his
9	the expectation is that the IRB will be approached at	9	decision that I quoted to you earlier about the IRB
10	every university, even if there are several universities	10	process being improperly engaged.
11	involved in a project.	11	A. I stated that I that I don't know. I don't
12	Now, the next sentence in this decision is,	12	know what the internal that is a decision again,
		1 1 2	this is something that I don't know the answer to, but
13	"The IRB process, however, was improperly engaged by the	13	this is something that I don't know the driswer to, but
13 14		14	this is an assertion about a Dartmouth conclusion, and I'm
	"The IRB process, however, was improperly engaged by the		-
14	"The IRB process, however, was improperly engaged by the Dartmouth researcher and ignored completely by the Stanford researchers." Did I read that accurately?	14 15 16	this is an assertion about a Dartmouth conclusion, and I'm saying I don't know. I just have not been in touch with anyone at the IRB at Dartmouth to know what their
14 15 16 17	"The IRB process, however, was improperly engaged by the Dartmouth researcher and ignored completely by the Stanford researchers." Did I read that accurately? A. Yes. And it is not my understanding that I	14 15 16 17	this is an assertion about a Dartmouth conclusion, and I'm saying I don't know. I just have not been in touch with
14 15 16 17 18	"The IRB process, however, was improperly engaged by the Dartmouth researcher and ignored completely by the Stanford researchers." Did I read that accurately?	14 15 16 17 18	this is an assertion about a Dartmouth conclusion, and I'm saying I don't know. I just have not been in touch with anyone at the IRB at Dartmouth to know what their conclusion was about it. I've not if that is the case, I've not heard that.
14 15 16 17 18 19	"The IRB process, however, was improperly engaged by the Dartmouth researcher and ignored completely by the Stanford researchers." Did I read that accurately? A. Yes. And it is not my understanding that I	14 15 16 17	this is an assertion about a Dartmouth conclusion, and I'm saying I don't know. I just have not been in touch with anyone at the IRB at Dartmouth to know what their conclusion was about it. I've not if that is the case,
14 15 16 17 18 19 20	"The IRB process, however, was improperly engaged by the Dartmouth researcher and ignored completely by the Stanford researchers." Did I read that accurately? A. Yes. And it is not my understanding that I don't know fully I'm not fully up to date on the	14 15 16 17 18	this is an assertion about a Dartmouth conclusion, and I'm saying I don't know. I just have not been in touch with anyone at the IRB at Dartmouth to know what their conclusion was about it. I've not if that is the case, I've not heard that.
14 15 16 17 18 19 20 21	"The IRB process, however, was improperly engaged by the Dartmouth researcher and ignored completely by the Stanford researchers." Did I read that accurately? A. Yes. And it is not my understanding that I don't know fully I'm not fully up to date on the investigation at Dartmouth, but it is not my understanding	14 15 16 17 18 19 20 21	this is an assertion about a Dartmouth conclusion, and I'm saying I don't know. I just have not been in touch with anyone at the IRB at Dartmouth to know what their conclusion was about it. I've not if that is the case, I've not heard that. Q. Have you been in touch with anyone at the IRB
14 15 16 17 18 19 20 21 22	"The IRB process, however, was improperly engaged by the Dartmouth researcher and ignored completely by the Stanford researchers." Did I read that accurately? A. Yes. And it is not my understanding that I don't know fully I'm not fully up to date on the investigation at Dartmouth, but it is not my understanding that Dartmouth has made a determination that the IRB was	14 15 16 17 18 19 20 21 22	this is an assertion about a Dartmouth conclusion, and I'm saying I don't know. I just have not been in touch with anyone at the IRB at Dartmouth to know what their conclusion was about it. I've not if that is the case, I've not heard that. Q. Have you been in touch with anyone at the IRB at Stanford as to whether or not your failure to obtain
14 15 16 17 18 19 20 21 22 23	"The IRB process, however, was improperly engaged by the Dartmouth researcher and ignored completely by the Stanford researchers." Did I read that accurately? A. Yes. And it is not my understanding that I don't know fully I'm not fully up to date on the investigation at Dartmouth, but it is not my understanding that Dartmouth has made a determination that the IRB was inappropriately improperly engaged, but I'm not	14 15 16 17 18 19 20 21 22 23	this is an assertion about a Dartmouth conclusion, and I'm saying I don't know. I just have not been in touch with anyone at the IRB at Dartmouth to know what their conclusion was about it. I've not if that is the case, I've not heard that. Q. Have you been in touch with anyone at the IRB at Stanford as to whether or not your failure to obtain IRB approval before conducting the Montana flyer project
14 15 16 17 18 19 20 21 22 23 24	"The IRB process, however, was improperly engaged by the Dartmouth researcher and ignored completely by the Stanford researchers." Did I read that accurately? A. Yes. And it is not my understanding that I don't know fully I'm not fully up to date on the investigation at Dartmouth, but it is not my understanding that Dartmouth has made a determination that the IRB was inappropriately improperly engaged, but I'm not entirely sure.	14 15 16 17 18 19 20 21 22 23 24	this is an assertion about a Dartmouth conclusion, and I'm saying I don't know. I just have not been in touch with anyone at the IRB at Dartmouth to know what their conclusion was about it. I've not if that is the case, I've not heard that. Q. Have you been in touch with anyone at the IRB at Stanford as to whether or not your failure to obtain IRB approval before conducting the Montana flyer project was consistent with the university's guidelines?
14 15 16 17 18 19 20 21 22 23	"The IRB process, however, was improperly engaged by the Dartmouth researcher and ignored completely by the Stanford researchers." Did I read that accurately? A. Yes. And it is not my understanding that I don't know fully I'm not fully up to date on the investigation at Dartmouth, but it is not my understanding that Dartmouth has made a determination that the IRB was inappropriately improperly engaged, but I'm not entirely sure. Q. Now, you're one of the Stanford researchers	14 15 16 17 18 19 20 21 22 23	this is an assertion about a Dartmouth conclusion, and I'm saying I don't know. I just have not been in touch with anyone at the IRB at Dartmouth to know what their conclusion was about it. I've not if that is the case, I've not heard that. Q. Have you been in touch with anyone at the IRB at Stanford as to whether or not your failure to obtain IRB approval before conducting the Montana flyer project was consistent with the university's guidelines? A. Yes. We had a meeting

	Page 329		Page 331
1	notified us that, in fact, in a multi-institutional	1	justifying civil prosecution under Section 13-37-124 MCA."
2	project it is necessary to receive IRB approval or	2	Because of the nature of violations (the failure to
3	exemption from Stanford in addition to other institutions,	3	register, report and disclose occurred in Lewis and Clark
4	clarified our misunderstanding of the procedures.	4	County), this matter is referred to the County Attorney of
5	Q. Okay. And just so the record is clear, you	5	Lewis and Clark County for his consideration as to
6	didn't obtain that approval from the Stanford IRB,	6	prosecution."
7	correct, before engaging in the Montana flyer project?	7	Did I read that correctly?
8	A. That's correct.	8	A. Yes.
9	Q. Okay. Could you turn to Page 18 of this	9	Q. So the decision of the Commissioner of
10	decision, and I'm looking at what's labeled Sufficiency	10	Political Practices of the State of Montana is that there
11	Finding No. 2, and it states, "The Commissioner determines	11	is sufficient evidence for civil or criminal prosecution
12	that there are sufficient facts to show that the language	12	as a result of the Montana flyer project, correct?
13	and images sent out in the Montana flyer constitute 2014	13	A. That is what this document states.
14	election-related express advocacy by Stanford and	14	Q. And it was referred to the County Attorney of
15	Dartmouth as well as by Professors Kyle Dropp, Adam Bonica	15	Lewis and Clark County for that purpose, correct?
16	and Jonathan Rodden."	16	A. It was referred to that prosecutor and that is
17	Did I read that correctly?	17	the last communication that I have received from anyone in
18	A. Yes.	18	Montana.
19	Q. Okay. And can we turn to Page 21. I would	19	Q. And you it's also correct, isn't it, that
20	like to read Sufficiency Finding No. 3. "The Commissioner	20	in this decision I'm not going to bother reading it
21	determines that there are sufficient facts to show that	21	all, unless you would like me to read it into the record,
22	Stanford, Dartmouth and/or its researchers violated	22	that the Commissioner found that there was a violation of
23	Montana Campaign Practice laws requiring registration,	23	the Montana Impersonation Statute arising from your use of
24	reporting and disclosure of independent expenditures."	24	the official state seal of Montana on this flyer?
25	Did I read that correctly?	25	A. That was one of the claims that was especially
	D 220		
	Page 330		Page 332
1	-	1	_
1 2	A. Yes. I would add that Stanford strongly objects to all of these claims.	1 2	Page 332 interesting. Q. But that's what the Montana Commissioner
	A. Yes. I would add that Stanford strongly		interesting.
2	A. Yes. I would add that Stanford strongly objects to all of these claims.	2	interesting. Q. But that's what the Montana Commissioner
2	A. Yes. I would add that Stanford strongly objects to all of these claims. Q. Okay. But the Commissioner's decision here,	2	interesting. Q. But that's what the Montana Commissioner found, right, that there was a violation of the
2 3 4	A. Yes. I would add that Stanford strongly objects to all of these claims. Q. Okay. But the Commissioner's decision here, and specifically it's Sufficiency Finding No. 3, is a	2 3 4	interesting. Q. But that's what the Montana Commissioner found, right, that there was a violation of the Impersonation Statute?
2 3 4 5	A. Yes. I would add that Stanford strongly objects to all of these claims. Q. Okay. But the Commissioner's decision here, and specifically it's Sufficiency Finding No. 3, is a reference to you, that in the Commissioner's finding you	2 3 4 5	interesting. Q. But that's what the Montana Commissioner found, right, that there was a violation of the Impersonation Statute? A. Yes. It was something that is a little
2 3 4 5 6	A. Yes. I would add that Stanford strongly objects to all of these claims. Q. Okay. But the Commissioner's decision here, and specifically it's Sufficiency Finding No. 3, is a reference to you, that in the Commissioner's finding you violated Montana Campaign Practice laws requiring	2 3 4 5 6	interesting. Q. But that's what the Montana Commissioner found, right, that there was a violation of the Impersonation Statute? A. Yes. It was something that is a little difficult to it's the legal theory is difficult to
2 3 4 5 6 7	A. Yes. I would add that Stanford strongly objects to all of these claims. Q. Okay. But the Commissioner's decision here, and specifically it's Sufficiency Finding No. 3, is a reference to you, that in the Commissioner's finding you violated Montana Campaign Practice laws requiring registration, reporting and disclosure of independent	2 3 4 5 6 7	interesting. Q. But that's what the Montana Commissioner found, right, that there was a violation of the Impersonation Statute? A. Yes. It was something that is a little difficult to it's the legal theory is difficult to understand.
2 3 4 5 6 7 8	A. Yes. I would add that Stanford strongly objects to all of these claims. Q. Okay. But the Commissioner's decision here, and specifically it's Sufficiency Finding No. 3, is a reference to you, that in the Commissioner's finding you violated Montana Campaign Practice laws requiring registration, reporting and disclosure of independent expenditures, correct?	2 3 4 5 6 7 8	interesting. Q. But that's what the Montana Commissioner found, right, that there was a violation of the Impersonation Statute? A. Yes. It was something that is a little difficult to it's the legal theory is difficult to understand. Q. Now, as a result of all of this, all of these
2 3 4 5 6 7 8	A. Yes. I would add that Stanford strongly objects to all of these claims. Q. Okay. But the Commissioner's decision here, and specifically it's Sufficiency Finding No. 3, is a reference to you, that in the Commissioner's finding you violated Montana Campaign Practice laws requiring registration, reporting and disclosure of independent expenditures, correct? A. The statement reads, "The Commissioner	2 3 4 5 6 7 8	interesting. Q. But that's what the Montana Commissioner found, right, that there was a violation of the Impersonation Statute? A. Yes. It was something that is a little difficult to it's the legal theory is difficult to understand. Q. Now, as a result of all of this, all of these proceedings around your Montana flyer project, the
2 3 4 5 6 7 8 9	A. Yes. I would add that Stanford strongly objects to all of these claims. Q. Okay. But the Commissioner's decision here, and specifically it's Sufficiency Finding No. 3, is a reference to you, that in the Commissioner's finding you violated Montana Campaign Practice laws requiring registration, reporting and disclosure of independent expenditures, correct? A. The statement reads, "The Commissioner determines that there are sufficient facts to show that	2 3 4 5 6 7 8 9	interesting. Q. But that's what the Montana Commissioner found, right, that there was a violation of the Impersonation Statute? A. Yes. It was something that is a little difficult to it's the legal theory is difficult to understand. Q. Now, as a result of all of this, all of these proceedings around your Montana flyer project, the presidents of Stanford and Dartmouth signed an open letter
2 3 4 5 6 7 8 9 10	A. Yes. I would add that Stanford strongly objects to all of these claims. Q. Okay. But the Commissioner's decision here, and specifically it's Sufficiency Finding No. 3, is a reference to you, that in the Commissioner's finding you violated Montana Campaign Practice laws requiring registration, reporting and disclosure of independent expenditures, correct? A. The statement reads, "The Commissioner determines that there are sufficient facts to show that Stanford, Dartmouth and/or its researchers violated	2 3 4 5 6 7 8 9 10	interesting. Q. But that's what the Montana Commissioner found, right, that there was a violation of the Impersonation Statute? A. Yes. It was something that is a little difficult to it's the legal theory is difficult to understand. Q. Now, as a result of all of this, all of these proceedings around your Montana flyer project, the presidents of Stanford and Dartmouth signed an open letter jointly to voters and citizens of Montana apologizing for
2 3 4 5 6 7 8 9 10 11	A. Yes. I would add that Stanford strongly objects to all of these claims. Q. Okay. But the Commissioner's decision here, and specifically it's Sufficiency Finding No. 3, is a reference to you, that in the Commissioner's finding you violated Montana Campaign Practice laws requiring registration, reporting and disclosure of independent expenditures, correct? A. The statement reads, "The Commissioner determines that there are sufficient facts to show that Stanford, Dartmouth and/or its researchers violated Montana Campaign Practice laws requiring registration,	2 3 4 5 6 7 8 9 10 11	interesting. Q. But that's what the Montana Commissioner found, right, that there was a violation of the Impersonation Statute? A. Yes. It was something that is a little difficult to it's the legal theory is difficult to understand. Q. Now, as a result of all of this, all of these proceedings around your Montana flyer project, the presidents of Stanford and Dartmouth signed an open letter jointly to voters and citizens of Montana apologizing for the Montana flyer project; is that correct?
2 3 4 5 6 7 8 9 10 11 12	A. Yes. I would add that Stanford strongly objects to all of these claims. Q. Okay. But the Commissioner's decision here, and specifically it's Sufficiency Finding No. 3, is a reference to you, that in the Commissioner's finding you violated Montana Campaign Practice laws requiring registration, reporting and disclosure of independent expenditures, correct? A. The statement reads, "The Commissioner determines that there are sufficient facts to show that Stanford, Dartmouth and/or its researchers violated Montana Campaign Practice laws requiring registration, reporting and disclosure of independent expenditures."	2 3 4 5 6 7 8 9 10 11 12 13	interesting. Q. But that's what the Montana Commissioner found, right, that there was a violation of the Impersonation Statute? A. Yes. It was something that is a little difficult to it's the legal theory is difficult to understand. Q. Now, as a result of all of this, all of these proceedings around your Montana flyer project, the presidents of Stanford and Dartmouth signed an open letter jointly to voters and citizens of Montana apologizing for the Montana flyer project; is that correct? A. Yes. The Commissioner, in the moment when the flyers first went out and there was a the affair was in the public eye, the Commissioner asked the universities to
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	A. Yes. I would add that Stanford strongly objects to all of these claims. Q. Okay. But the Commissioner's decision here, and specifically it's Sufficiency Finding No. 3, is a reference to you, that in the Commissioner's finding you violated Montana Campaign Practice laws requiring registration, reporting and disclosure of independent expenditures, correct? A. The statement reads, "The Commissioner determines that there are sufficient facts to show that Stanford, Dartmouth and/or its researchers violated Montana Campaign Practice laws requiring registration, reporting and disclosure of independent expenditures." Yes, it does say that. Q. That's a reference to you, correct? A. When it says and/or its researchers, that is a	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	interesting. Q. But that's what the Montana Commissioner found, right, that there was a violation of the Impersonation Statute? A. Yes. It was something that is a little difficult to it's the legal theory is difficult to understand. Q. Now, as a result of all of this, all of these proceedings around your Montana flyer project, the presidents of Stanford and Dartmouth signed an open letter jointly to voters and citizens of Montana apologizing for the Montana flyer project; is that correct? A. Yes. The Commissioner, in the moment when the flyers first went out and there was a the affair was in the public eye, the Commissioner asked the universities to produce such a letter and provided some of the content for
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	A. Yes. I would add that Stanford strongly objects to all of these claims. Q. Okay. But the Commissioner's decision here, and specifically it's Sufficiency Finding No. 3, is a reference to you, that in the Commissioner's finding you violated Montana Campaign Practice laws requiring registration, reporting and disclosure of independent expenditures, correct? A. The statement reads, "The Commissioner determines that there are sufficient facts to show that Stanford, Dartmouth and/or its researchers violated Montana Campaign Practice laws requiring registration, reporting and disclosure of independent expenditures." Yes, it does say that. Q. That's a reference to you, correct? A. When it says and/or its researchers, that is a reference to myself and my two co-authors.	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	interesting. Q. But that's what the Montana Commissioner found, right, that there was a violation of the Impersonation Statute? A. Yes. It was something that is a little difficult to it's the legal theory is difficult to understand. Q. Now, as a result of all of this, all of these proceedings around your Montana flyer project, the presidents of Stanford and Dartmouth signed an open letter jointly to voters and citizens of Montana apologizing for the Montana flyer project; is that correct? A. Yes. The Commissioner, in the moment when the flyers first went out and there was a the affair was in the public eye, the Commissioner asked the universities to produce such a letter and provided some of the content for that letter and made it clear that that would be
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	A. Yes. I would add that Stanford strongly objects to all of these claims. Q. Okay. But the Commissioner's decision here, and specifically it's Sufficiency Finding No. 3, is a reference to you, that in the Commissioner's finding you violated Montana Campaign Practice laws requiring registration, reporting and disclosure of independent expenditures, correct? A. The statement reads, "The Commissioner determines that there are sufficient facts to show that Stanford, Dartmouth and/or its researchers violated Montana Campaign Practice laws requiring registration, reporting and disclosure of independent expenditures." Yes, it does say that. Q. That's a reference to you, correct? A. When it says and/or its researchers, that is a reference to myself and my two co-authors. Q. Okay. Can we look at Page 25 of this	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	interesting. Q. But that's what the Montana Commissioner found, right, that there was a violation of the Impersonation Statute? A. Yes. It was something that is a little difficult to it's the legal theory is difficult to understand. Q. Now, as a result of all of this, all of these proceedings around your Montana flyer project, the presidents of Stanford and Dartmouth signed an open letter jointly to voters and citizens of Montana apologizing for the Montana flyer project; is that correct? A. Yes. The Commissioner, in the moment when the flyers first went out and there was a the affair was in the public eye, the Commissioner asked the universities to produce such a letter and provided some of the content for that letter and made it clear that that would be considered in any future proceedings, so that is the
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	A. Yes. I would add that Stanford strongly objects to all of these claims. Q. Okay. But the Commissioner's decision here, and specifically it's Sufficiency Finding No. 3, is a reference to you, that in the Commissioner's finding you violated Montana Campaign Practice laws requiring registration, reporting and disclosure of independent expenditures, correct? A. The statement reads, "The Commissioner determines that there are sufficient facts to show that Stanford, Dartmouth and/or its researchers violated Montana Campaign Practice laws requiring registration, reporting and disclosure of independent expenditures." Yes, it does say that. Q. That's a reference to you, correct? A. When it says and/or its researchers, that is a reference to myself and my two co-authors. Q. Okay. Can we look at Page 25 of this decision, and the first full paragraph here, the first	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	interesting. Q. But that's what the Montana Commissioner found, right, that there was a violation of the Impersonation Statute? A. Yes. It was something that is a little difficult to it's the legal theory is difficult to understand. Q. Now, as a result of all of this, all of these proceedings around your Montana flyer project, the presidents of Stanford and Dartmouth signed an open letter jointly to voters and citizens of Montana apologizing for the Montana flyer project; is that correct? A. Yes. The Commissioner, in the moment when the flyers first went out and there was a the affair was in the public eye, the Commissioner asked the universities to produce such a letter and provided some of the content for that letter and made it clear that that would be considered in any future proceedings, so that is the origin of that letter.
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	A. Yes. I would add that Stanford strongly objects to all of these claims. Q. Okay. But the Commissioner's decision here, and specifically it's Sufficiency Finding No. 3, is a reference to you, that in the Commissioner's finding you violated Montana Campaign Practice laws requiring registration, reporting and disclosure of independent expenditures, correct? A. The statement reads, "The Commissioner determines that there are sufficient facts to show that Stanford, Dartmouth and/or its researchers violated Montana Campaign Practice laws requiring registration, reporting and disclosure of independent expenditures." Yes, it does say that. Q. That's a reference to you, correct? A. When it says and/or its researchers, that is a reference to myself and my two co-authors. Q. Okay. Can we look at Page 25 of this decision, and the first full paragraph here, the first sentence reads, "Because there is a finding of violation	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	interesting. Q. But that's what the Montana Commissioner found, right, that there was a violation of the Impersonation Statute? A. Yes. It was something that is a little difficult to it's the legal theory is difficult to understand. Q. Now, as a result of all of this, all of these proceedings around your Montana flyer project, the presidents of Stanford and Dartmouth signed an open letter jointly to voters and citizens of Montana apologizing for the Montana flyer project; is that correct? A. Yes. The Commissioner, in the moment when the flyers first went out and there was a the affair was in the public eye, the Commissioner asked the universities to produce such a letter and provided some of the content for that letter and made it clear that that would be considered in any future proceedings, so that is the origin of that letter. Q. And
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	A. Yes. I would add that Stanford strongly objects to all of these claims. Q. Okay. But the Commissioner's decision here, and specifically it's Sufficiency Finding No. 3, is a reference to you, that in the Commissioner's finding you violated Montana Campaign Practice laws requiring registration, reporting and disclosure of independent expenditures, correct? A. The statement reads, "The Commissioner determines that there are sufficient facts to show that Stanford, Dartmouth and/or its researchers violated Montana Campaign Practice laws requiring registration, reporting and disclosure of independent expenditures." Yes, it does say that. Q. That's a reference to you, correct? A. When it says and/or its researchers, that is a reference to myself and my two co-authors. Q. Okay. Can we look at Page 25 of this decision, and the first full paragraph here, the first sentence reads, "Because there is a finding of violation and a determination that de minimis and excusable neglect	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	interesting. Q. But that's what the Montana Commissioner found, right, that there was a violation of the Impersonation Statute? A. Yes. It was something that is a little difficult to it's the legal theory is difficult to understand. Q. Now, as a result of all of this, all of these proceedings around your Montana flyer project, the presidents of Stanford and Dartmouth signed an open letter jointly to voters and citizens of Montana apologizing for the Montana flyer project; is that correct? A. Yes. The Commissioner, in the moment when the flyers first went out and there was a the affair was in the public eye, the Commissioner asked the universities to produce such a letter and provided some of the content for that letter and made it clear that that would be considered in any future proceedings, so that is the origin of that letter. Q. And A. I should say that the there had been other
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	A. Yes. I would add that Stanford strongly objects to all of these claims. Q. Okay. But the Commissioner's decision here, and specifically it's Sufficiency Finding No. 3, is a reference to you, that in the Commissioner's finding you violated Montana Campaign Practice laws requiring registration, reporting and disclosure of independent expenditures, correct? A. The statement reads, "The Commissioner determines that there are sufficient facts to show that Stanford, Dartmouth and/or its researchers violated Montana Campaign Practice laws requiring registration, reporting and disclosure of independent expenditures." Yes, it does say that. Q. That's a reference to you, correct? A. When it says and/or its researchers, that is a reference to myself and my two co-authors. Q. Okay. Can we look at Page 25 of this decision, and the first full paragraph here, the first sentence reads, "Because there is a finding of violation and a determination that de minimis and excusable neglect theories are not applicable, civil/criminal prosecution	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	interesting. Q. But that's what the Montana Commissioner found, right, that there was a violation of the Impersonation Statute? A. Yes. It was something that is a little difficult to it's the legal theory is difficult to understand. Q. Now, as a result of all of this, all of these proceedings around your Montana flyer project, the presidents of Stanford and Dartmouth signed an open letter jointly to voters and citizens of Montana apologizing for the Montana flyer project; is that correct? A. Yes. The Commissioner, in the moment when the flyers first went out and there was a the affair was in the public eye, the Commissioner asked the universities to produce such a letter and provided some of the content for that letter and made it clear that that would be considered in any future proceedings, so that is the origin of that letter. Q. And A. I should say that the there had been other communications from the university since then that have
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	A. Yes. I would add that Stanford strongly objects to all of these claims. Q. Okay. But the Commissioner's decision here, and specifically it's Sufficiency Finding No. 3, is a reference to you, that in the Commissioner's finding you violated Montana Campaign Practice laws requiring registration, reporting and disclosure of independent expenditures, correct? A. The statement reads, "The Commissioner determines that there are sufficient facts to show that Stanford, Dartmouth and/or its researchers violated Montana Campaign Practice laws requiring registration, reporting and disclosure of independent expenditures." Yes, it does say that. Q. That's a reference to you, correct? A. When it says and/or its researchers, that is a reference to myself and my two co-authors. Q. Okay. Can we look at Page 25 of this decision, and the first full paragraph here, the first sentence reads, "Because there is a finding of violation and a determination that de minimis and excusable neglect theories are not applicable, civil/criminal prosecution and/or a civil fine is justified (See Section 13-37-124	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	interesting. Q. But that's what the Montana Commissioner found, right, that there was a violation of the Impersonation Statute? A. Yes. It was something that is a little difficult to it's the legal theory is difficult to understand. Q. Now, as a result of all of this, all of these proceedings around your Montana flyer project, the presidents of Stanford and Dartmouth signed an open letter jointly to voters and citizens of Montana apologizing for the Montana flyer project; is that correct? A. Yes. The Commissioner, in the moment when the flyers first went out and there was a the affair was in the public eye, the Commissioner asked the universities to produce such a letter and provided some of the content for that letter and made it clear that that would be considered in any future proceedings, so that is the origin of that letter. Q. And A. I should say that the there had been other communications from the university since then that have strongly opposed this document and taken issue with the
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	A. Yes. I would add that Stanford strongly objects to all of these claims. Q. Okay. But the Commissioner's decision here, and specifically it's Sufficiency Finding No. 3, is a reference to you, that in the Commissioner's finding you violated Montana Campaign Practice laws requiring registration, reporting and disclosure of independent expenditures, correct? A. The statement reads, "The Commissioner determines that there are sufficient facts to show that Stanford, Dartmouth and/or its researchers violated Montana Campaign Practice laws requiring registration, reporting and disclosure of independent expenditures." Yes, it does say that. Q. That's a reference to you, correct? A. When it says and/or its researchers, that is a reference to myself and my two co-authors. Q. Okay. Can we look at Page 25 of this decision, and the first full paragraph here, the first sentence reads, "Because there is a finding of violation and a determination that de minimis and excusable neglect theories are not applicable, civil/criminal prosecution	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	interesting. Q. But that's what the Montana Commissioner found, right, that there was a violation of the Impersonation Statute? A. Yes. It was something that is a little difficult to it's the legal theory is difficult to understand. Q. Now, as a result of all of this, all of these proceedings around your Montana flyer project, the presidents of Stanford and Dartmouth signed an open letter jointly to voters and citizens of Montana apologizing for the Montana flyer project; is that correct? A. Yes. The Commissioner, in the moment when the flyers first went out and there was a the affair was in the public eye, the Commissioner asked the universities to produce such a letter and provided some of the content for that letter and made it clear that that would be considered in any future proceedings, so that is the origin of that letter. Q. And A. I should say that the there had been other communications from the university since then that have

	Page 333		Page 335
1	Dartmouth and Stanford, that's appended to this decision?	1	plans produced by Mr. Cooper.
2	A. Yes.	2	Q. Okay. And
3	Q. Correct?	3	A. Let me say a little bit more just to be clear
4	A. Yes.	4	about what we were how we should read these things.
5	Q. And the presidents of Dartmouth and Stanford,	5	This was the kind of imagine we're trying to imagine
6	at the end of the first paragraph write, "We genuinely	6	a hypothetical scenario in which Mr Mr. Cooper's
7	regret that it was sent and we ask Montana voters to	7	districts were used to conduct elections. And so in order
8	ignore the mailer."	8	to do that, we think about a districting plan in which
9	Did I read that accurately?	9	elections are held in a year, and there are seven
10	A. Yes.	10	districts. There are seven districts being contested, so
11	Q. And this letter was mailed out to Montana	11	all seven seats are up and we're trying to figure out who
12	voters at a cost of over \$50,000; is that your	12	would win those seats.
13	understanding?	13	Q. Okay. So let me clarify. So when we look at
14	A. That sounds right.	14	these numbers, look at 2000, and what you did is you took
15	Q. So as a result of your and Stanford covered	15	Cooper's plan Cooper has as Illustrative Plan 1 and 2,
16	the footed the bill for that, correct?	16	but this is only we're only looking at No. 2 right now,
17	A. Yes.	17	and Mr. Cooper divides the district up into seven
18	Q. So Stanford incurred a cost of about \$50,000	18	districts, correct?
19	with an apology for your Montana flyer project, correct?	19	A. Correct.
20	A. Correct.	20	Q. And when you did your chart here, you did not
21	Q. Okay. Could we just pause for a minute and go	21	assume staggered terms, correct? You assumed that all
22	off the record? I just want to make sure. I think we're	22	seven of those districts had an election each of those
23	done, but I just want to go over my notes really quickly.	23	years between 2000 and 2015?
24	MS. ORMSBY: Fine.	24	A. From Mr. Cooper's report, that was our
25	MR. HO: I don't think I have anything else.	25	understanding of the of the way he was proposing those
	Page 334		Page 336
1	MS. ORMSBY: All right. May we have a few	1	electoral districts to operate; that they were to be used
2	minutes?	2	in an election in which seven seats were simultaneously
3	MR. HO: Sure.	3	contested.
4	(Whereupon, a recess was taken from 6:42 to	4	Q. But that's not how elections are held,
5	7:12 P.M.)	5	correct? In 2000 there were not seven seats up for
6	* * * *	6	election?
7	CROSS EXAMINATION,	7	A. Oh. In the actual school board election, no.
8	QUESTIONS BY MS. ORMSBY:	8	In an actual school board election, as we've been
9	Q. Okay. I'm going to try and keep this as brief	9	discussing all day today, there would be either two or
10	as possible. We've all been here a long time. Okay. I	10	three seats contested at a time.
11	am going to show you what we was previously if you	11	Q. Okay. So I'm going to hand you what was
12	could pull out, was it your report, is that Chen 1? Is	12	previously marked as Chen F, but I would like to mark this
13	that right, A, Chen A?	13	as Defendants' Q, please.
14	A. Yes.	14	A. Is this for me?
15	Q. Okay. If you could get Chen A, please, Chen	15	Q. No. Hand it to the court reporter. Hand her
16	Exhibit A, and turn to Page 8. Can you explain what this	16	the top copy. Sorry.
17	table is, please?	17	A. Okay.
18	A. Yes. We had we had used a statistical	18	(Whereupon, Defendants' Exhibit Q was marked
19	model to attempt to understand the number of elections	19	for identification.)
20	that the number of districts that would be won by	20	Q. All right. So Professor Chen was asked to
21	African-American candidates based on based on turnout	21	fill in this chart yesterday. I would like you to fill it
22	analysis from the past. So we were attempting to	22	out today. If we looked at what really happened in 2000,
23	understand how many districts would be won by African-American candidates under the hypothetical plan	23	and we can look at just look at one of the exhibits that we filled out today. Let's look at Exhibit 11, and
2/	ALLICALI-ALLICICALI CALIGIUALES ULIGEL LIE HYPULIELICAL PIALI	24	that we filled out today. Let's look at Exhibit 11, and
24 25	•••	25	going to the 2000 election or if you want compthing
24 25	introduced by Mr. Cooper, by both of the hypothetical	25	going to the 2000 election or if you want something

Page 339 Page 337 1 else to tell you just who won the election that year. A 2003 is --1 2 2 A. Okay. So we want to figure out the -- the Q. Slow down. Slow down. A. 2003 is one divided by two. 3 3 number of successful African-American candidates. So the 4 task here is presumably to compare the column on the left 4 Q. 2003 there was two candidates up, so one out 5 with the column on the right in a sensible way, and in 5 of two, correct? 6 order to do that, we need to know the share of the seats 6 A. That's correct. 7 7 that were up in the 2000 election. We need to compare Q. 2004, two candidates were up for election, so 8 that with the share of the seats that were up in this 8 what was the result in 2004? Garofalo and Hogshead won. 9 9 A. Yeah, zero African-Americans, so zero out of hypothetical single member district election. 10 So in 2000 we know that -- let's see. I 10 two. 11 wonder if we have a place where we know all the winners. 11 Q. And there was no election in 2005? 12 where we have all the winners very clear. I think perhaps 12 A. So 2006 it is --13 Exhibit 18 would be a good one to look at. 13 Q. It's a two-person election. 14 O. How about --14 A. There were zero African-American candidates 15 A. So in 2000 --15 elected, so zero divided by two. On the other side is 16 MR. HO: 12 may give you a sense of the 16 zero divided by seven. So then in 2009 it's zero divided winners. It's not obvious from the face of it, but --17 17 by --18 well, in some cases it's obvious. 18 Q. 2009 was a two-person election. 19 A. Okay. So let's --19 A. Two, and then over here we have one divided by 20 MR. HO: I mean there might be some years 20 seven. 2011 --21 where you need to look at the report. 21 Q. Three-person election. A. So 2000, I think -- and hopefully people can 22 22 A. So zero divided by three, zero divided by 23 chime in if I get something wrong. So Thomas was -- is an 23 seven. 2012 is a --24 African-American candidate who was successful in 2000, so 24 Q. Two-person election. 25 that's one. In -- yes. And so what I'm going to do is 25 A. -- two-person election. It is zero divided by Page 338 Page 340 1 two, and two divided by seven. 2013, it is --1 I'm going to express this -- the way to make this 2 comparison is we've got one-third over here, one-seventh 2 Q. Two-person election. 3 over here. 2001 we've got -- we've got Butler who is 3 A. Zero divided by two, or two divided by seven. 4 African-American candidate, we say here choice, but winner 4 So in 2014 it is --5 -- sorry. The winner in 2001, just need to know who won. 5 Q. Three-person election. MR. HO: I think it's Garofalo and Hogshead. 6 A. One divided by three compared to two divided 6 7 7 by seven. And 2015 it is one divided by two compared with A. Okay. So zero out of three. 8 Q. Two. 8 one divided by seven. So we would then need to -- we 9 A. Out of two, sorry. Here we've got zero out of 9 could then, if we wanted to do something to characterize 10 seven. 2002 we have, I believe, Doris Graham was 10 the overall relationship, we could either express -- we 11 victorious in 2002; is that correct? So that would be one 11 can express these as a proportion, which would be the --12 out of -- I think that was a -- was that a three-candidate 12 perhaps the most visually useful thing to do, so -- so 13 election in 2002? 13 we're looking at --14 Q. 2002 was a three-candidate election. 14 Q. Explain what you're doing, because the court 15 A. Okay. So that's --15 reporter has to write it down. 16 Q. Go back up to 2000 which was a two-candidate 16 A. Yes, of course. I'm just taking all of the 17 election. 17 fractions that have been filled in and I am now turning A. Oh, so I've got that wrong. So one out of --18 18 them into just an expression as a percentage. So one 19 one divided by two in 2000. So in 2002 one divided by 19 divided by two in the first line, I'm writing down .5. In 20 three. In 2003 it's -- it is Thomas, so it's one divided 20 the second line I'm writing down a zero. In the third by three. So 2004, I think we agreed --21 21 line I'm writing one divided by three, so .3. For the 22 Q. Wait a minute. 2000 --22 next line for 2003 I'm taking one divided by two. The 23 A. 2002. I'm sorry. 2002 should be one divided 23 next line zero, then zero, zero, zero, zero, zero. Then 24 by --24 one divided by three. 25 Q. No. 25 Q. And what year are you in now?

	Page 341		Page 343
1		1	
1	A. I'm now down to 2014. So .33. And then in	1 2	A. Hogshead and Brown.
2	2015, one divided by two.	3	Q. And are they statistically significantly
3	Q5?	4	different from each other as far as preference?
4	A. Yes. Thank you; .5. And then on the other		A. No. I think we determined that they are not.
5	side we just have a lot of one divided by seven, which is	5	Q. Is Thomas significantly statistically
6	.143 rounded. Then we have a zero, a zero, a .143, a	6	significantly different, however, compared to Hogshead and
7	.143, zero, a .143, zero, and then another so now we	7	Brown?
8	have a two divided by seven which is .286, then we have	8	A. Yes.
9	another of those, and then another .286, and then we have	9	Q. So in essence, Hogshead and Brown are tied for
10	another .143. So that is how I would fill out that table.	10	second place, correct, as the minority-preferred
11	Q. Okay. So can we just get to the cumulative	11	candidate?
12	then, so if you would and let's keep it all equal, so	12	A. Under this under this approach, yes.
13	let's take it to two decimal points for both Mr. Cooper's	13	Q. And who won that election?
14	plan and for what actually happened.	14	A. Brown and Hogshead were the winners.
15	A. So .5, plus .33, plus .5, plus .5, plus .33,	15	Q. So is it reasonable then, since Hogshead and
16	plus .5, plus .33, plus .5.	16	Brown were the same statistically, to say that the second
17	Q. What does that equal?	17	minority-preferred candidate for African-Americans
18	A. 2.16. And then	18	actually won in that election since they both won in that
19	Q. I'll read them off to you.	19	election?
20	A. Okay.	20	A. That would be
21	Q. Point 14, point 14, point 14, point 14, point	21	Q. Am I making sense?
22	28, point 28, point 28, point 14.	22	A. Yeah. Given the approach that is taken, that
23	A. So 1.12.	23	has been that this exercise involved, if we adopt that
24	Q. All right. So what do you conclude from this	24	approach, then we would say that there's a tie for the
25	sheet of paper?	25	second second candidate of choice, and they both won,
	Page 342		Page 344
1	A. I would conclude that the existing at-large	1	so it is it seems it seems just as under that
2	system I mean I think this is a you know, it's	2	approach, it seems just as consistent with that approach
3	difficult to make a comparison like this, but being asked	3	as or it seems more reasonable in many ways to go ahead
4	to make this kind of comparison, it suggests to me that	4	and say that both of these were tied for the second
5	the success of African-American candidates, at least as	5	candidate of choice, and second candidate of choice was
6	determined by this model, as predicted by this model in a	6	elected since both of them were elected.
7	hypothetical world in which we divide the district up into	7	Q. So it would be reasonable to change that
8	Mr. Cooper's seven districts, that the hypothetical	8	A. How we want to count things is another matter,
9	success of African-American candidates, based on the	9	but I think that is that is hard to escape as a
10	based on what we know about those years, would have given	10	conclusion.
11	us that we were better off, slightly better off under the	11	Q. So it could be said then that there was a
12	existing system.	12	successful minority-preferred candidate that won in 2013;
13	Q. Okay. Could you please look at your Rodden	13	is that right?
14	Exhibit 11 and also compare that with Rodden Exhibit 13,	14	A. Under that approach, yes.
		15	Q. And that would change the numbers slightly,
15	and I just want to look at one year here. I have a		
15 16	and I just want to look at one year here. I have a question regarding 2013.	16	but they would change?
16	question regarding 2013.		
	-	16	A. Yes. We would we would revisit Exhibit 13
16 17 18	question regarding 2013. A. The other exhibit was 13? Q. Yes.	16 17	A. Yes. We would we would revisit Exhibit 13 and we would this is the one that was looking no.
16 17 18 19	question regarding 2013. A. The other exhibit was 13? Q. Yes. A. Okay.	16 17 18 19	A. Yes. We would we would revisit Exhibit 13 and we would this is the one that was looking no. Exhibit 13 is this is the one in which we used the
16 17 18 19 20	question regarding 2013. A. The other exhibit was 13? Q. Yes. A. Okay. Q. I would like to look at 2013, and no doubt	16 17 18	A. Yes. We would we would revisit Exhibit 13 and we would this is the one that was looking no. Exhibit 13 is this is the one in which we used the Q. Right.
16 17 18 19 20 21	question regarding 2013. A. The other exhibit was 13? Q. Yes. A. Okay. Q. I would like to look at 2013, and no doubt that in 2013 you previously said that Henson with .38, 38	16 17 18 19 20	A. Yes. We would we would revisit Exhibit 13 and we would this is the one that was looking no. Exhibit 13 is this is the one in which we used the Q. Right. A the hypothetical exercise in which we use
16 17 18 19 20 21 22	question regarding 2013. A. The other exhibit was 13? Q. Yes. A. Okay. Q. I would like to look at 2013, and no doubt that in 2013 you previously said that Henson with .38, 38 percent, was the most preferred candidate of	16 17 18 19 20 21 22	A. Yes. We would we would revisit Exhibit 13 and we would this is the one that was looking no. Exhibit 13 is this is the one in which we used the Q. Right. A the hypothetical exercise in which we use confidence intervals as a rule of thumb to determine the
16 17 18 19 20 21 22 23	question regarding 2013. A. The other exhibit was 13? Q. Yes. A. Okay. Q. I would like to look at 2013, and no doubt that in 2013 you previously said that Henson with .38, 38	16 17 18 19 20 21	A. Yes. We would we would revisit Exhibit 13 and we would this is the one that was looking no. Exhibit 13 is this is the one in which we used the Q. Right. A the hypothetical exercise in which we use confidence intervals as a rule of thumb to determine the candidates of choice. So what we are now putting on the
16 17 18 19 20 21 22	question regarding 2013. A. The other exhibit was 13? Q. Yes. A. Okay. Q. I would like to look at 2013, and no doubt that in 2013 you previously said that Henson with .38, 38 percent, was the most preferred candidate of African-Americans, correct?	16 17 18 19 20 21 22 23	A. Yes. We would we would revisit Exhibit 13 and we would this is the one that was looking no. Exhibit 13 is this is the one in which we used the Q. Right. A the hypothetical exercise in which we use confidence intervals as a rule of thumb to determine the

	Page 345		Page 347
1	Hogshead, Brown are victorious.	1	49,009 and divide that by two, so we're talking about
2	Q. In 2013.	2	2,400 I'm sorry 24,000 rather 504.5, so a majority
3	A. Sorry. Wrong year.	3	of the voting age population would be 24,505. And so what
4	Q. So that would change that chart to be there	4	we have in terms of voting age single race
5	were two minority-preferred candidates, correct?	5	African-Americans is we have 24,505 minus 24,313, so
6	A. Who were tied for the second slot, and one of	6	single race African-Americans are short of a majority by
7	them was victorious, and so we would have to change this	7	192 individuals.
8	number zero to one in the column that says entitled	8	Q. And so when we look at the other VAP number of
9	Number Successful on the year 2013. That is that is	9	956, correct
10	how that seems to work.	10	A. Right.
11	Q. Okay. All right. So when we would add up the	11	Q only 192 of those other VAP would need to
12	total, the number of preferred candidates would increase	12	be any part African-American in order for the any part
13	by one to 20, and the number of successful would increase	13	black voting age population to be a majority; is that
14	by one to eight; is that correct?	14	right?
15	A. Yes.	15	A. That's correct. So that's yeah, that's 192
16	Q. Okay. All right. And then when we look back	16	of what number did we say was the let's see here.
17	to the last five years 10 years and five years, both of	17	192.
18	those numbers all of those numbers would increase by	18	Q. What are you doing now?
19	one as well, correct?	19	A. I just
20	A. Yes, so 13 and five	20	Q. There's no question on the table.
21	COURT REPORTER: I'm sorry. I can't hear you.	21	A. Okay.
22	Q. You have to speak up.	22	Q. So what exactly are you
23	A. I'm sorry. The line entitled Last 10 Years,	23	A. Okay. Nothing. I misunderstood.
24	the column entitled Number of Preferred Candidates will	24	Q. Okay. I just want to talk briefly about the
25	now be 13, and the column entitled Number of Successful	25	Montana situation and I want to ask you if you have
	2.01		7. 2.0
	Page 346		Page 348
1	will now be five. And the line entitled Last Five Years	1	have you been notified that any charges have been filed?
2	under the column Number of Preferred Candidates would now	2	A. No.
3	be nine, and the column called Number of Successful on the	3	Q. By Montana, the prosecutor in the county in
4	line called Last Five Years will now be a three.	4	which the Commissioner referred his findings?
5	Q. I realize it's a minor point, but one I wanted	5	A. No. I would like to believe I would be
6	to make. I'm going to change gears now briefly, and	6	informed if that had happened, and I've not been informed.
7	plaintiffs' counsel asked you at one point to use to	7 8	Q. And did you receive any sort of reprimand from
8	add up let me get to my he asked you to look at		Stanford as a result of this situation?
9	Rodden Exhibit 9, which is this one right here, I believe.	9	A. No. They did a thorough internal
10	A. Right.	10	investigation and there were no there was no reprimand
11 12	Q. And for 2012 add up all the white VAP, all the black VAP and all the other VAP, correct, and determine	11 12	following from that. MS_OPMSRV: All right Ldon't have any
13	what the actual feedback was for 2012. Do you remember	13	MS. ORMSBY: All right. I don't have any
14	•	14	further questions.
15	doing that? Do you remember adding those up and dividing the total number?	15	RE-DIRECT EXAMINATION,
16	A. I believe I still have the paper here, yes.	16	QUESTIONS BY MR. HO:
17	Q. And do you remember what percentage was	17	Q. I just have a few, Dr. Rodden.
18	A. I'm sorry. What percentage what was?	18	A. Okay.
19	Q. What percentage was the B-VAP.	19	Q. Let me just do them really quickly, without
20	A. Single race African-American was 49.6. Yeah,	20	taking a break, and we can be done for the day.
21	that's all right here.	21	A. Okay.
22	Q. Do you have any way to calculate how many	22	Q. So you and Ms. Ormsby discussed this new
23	people, actual people that would be in order to have a	23	exhibit Defendants' Exhibit Q which we filled out which
24	majority B-VAP? What are we talking difference-wise?	24	purports to compare the number of successful black
25	A. Sure. So we can just take we can just take	25	candidates in the existing at-large system to Mr. Cooper's
ì	,		. 3 3

	Page 349	Page :	351
1	Illustrative Plan 2, correct?	1 voting patterns would remain the same in an at-large	or
2	A. Yes.	2 single member district arrangement, correct? You did	
3	Q. And you also discussed what's in Chen Exhibit	3 build into this model any potential change in, say,	
4	A, your supplemental report with Dr. Chen, and Table 2 on	4 turnout levels under a single member district plan as	
5	Page 8 of that report.	5 opposed to an at-large plan, correct?	
6	MS. ORMSBY: I'll ask you to clarify when he	6 A. Yes. We had no way of imagining what those	
7	talked to Dr. Chen regarding the report.	7 turnout differences might be.	
8	MR. HO: I didn't ask about whether he talked	8 Q. Have you ever seen any research on whether	or
9	to Dr. Chen about it.	9 not turnout is different under single member districts	
10	MS. ORMSBY: Oh, I	10 opposed to at-large systems?	
11	MR. HO: He talked to you about	11 A. Not comparing at-large with single member. I	
12	MS. ORMSBY: Oh, I'm sorry. I thought you	12 know there's a large literature suggesting that turnout is	
13	said Dr. Chen. I'm sorry.	13 higher in systems with proportional representation than	
14	MR. HO: No.	under single turnout, typically very low in single member	
15	MS. ORMSBY: I'm sorry. Can you repeat your	district systems, one of the lowest turnout electoral	
16	question? Because I misunderstood it.	16 forms in comparative politics.	
17	Q. (By Mr. Ho) Yeah. I want to ask you about	17 Q. Have you looked at any academic literature	
18	these two different tables, Table 2 on Page 8 of Chen	whether minority turnout specifically is higher or low	er
19	Exhibit A which you're holding in your hand right now, so	 under single member districting plans in which minor 	
20	Page 8, Table 2.	20 are a majority of a district?	11103
21	A. Okay. Yes.	21 A. No.	
22	Q. And Defendant's Exhibit Q which you just	22 Q. I want to ask a few questions, Dr. Rodden,	
23	filled out.	23 about Exhibit 9, the ACS estimates for population in 2	012
24	A. Yes.	24 that you just went over with Ms. Ormsby.	.0.2
25	Q. Now, these tables purport to show the number	25 A. The exhibit number again?	
		~	
	Page 350	Page 3	352
1	Page 350 of African-American candidates who would be elected under	Page 1	352
1 2		_	352
	of African-American candidates who would be elected under	1 Q. Nine.	
2	of African-American candidates who would be elected under these various electoral arrangements, correct?	1 Q. Nine. 2 A. I'll find it.	,
2	of African-American candidates who would be elected under these various electoral arrangements, correct? A. Yes.	1 Q. Nine. 2 A. I'll find it. 3 Q. There you go. Now, the column that says 2012	, ear
2 3 4	of African-American candidates who would be elected under these various electoral arrangements, correct? A. Yes. Q. Now, they do not show the number of	1 Q. Nine. 2 A. I'll find it. 3 Q. There you go. Now, the column that says 2012 4 these are the numbers I'm sorry. The row with the y	, ear
2 3 4 5	of African-American candidates who would be elected under these various electoral arrangements, correct? A. Yes. Q. Now, they do not show the number of African-American preferred candidates, as you would define	1 Q. Nine. 2 A. I'll find it. 3 Q. There you go. Now, the column that says 2012 4 these are the numbers I'm sorry. The row with the y 5 2012 in the third column, do you see what I'm referring	, ear
2 3 4 5 6	of African-American candidates who would be elected under these various electoral arrangements, correct? A. Yes. Q. Now, they do not show the number of African-American preferred candidates, as you would define that term, who would be successful under these electoral	1 Q. Nine. 2 A. I'll find it. 3 Q. There you go. Now, the column that says 2012 4 these are the numbers I'm sorry. The row with the y 5 2012 in the third column, do you see what I'm referring 6 to, Dr. Rodden?	, ear
2 3 4 5 6 7	of African-American candidates who would be elected under these various electoral arrangements, correct? A. Yes. Q. Now, they do not show the number of African-American preferred candidates, as you would define that term, who would be successful under these electoral arrangements, correct, Dr. Rodden?	1 Q. Nine. 2 A. I'll find it. 3 Q. There you go. Now, the column that says 2012 4 these are the numbers I'm sorry. The row with the y 5 2012 in the third column, do you see what I'm referring 6 to, Dr. Rodden? 7 A. Yes.	, ear
2 3 4 5 6 7 8	of African-American candidates who would be elected under these various electoral arrangements, correct? A. Yes. Q. Now, they do not show the number of African-American preferred candidates, as you would define that term, who would be successful under these electoral arrangements, correct, Dr. Rodden? A. No. We didn't have any way of assessing that,	1 Q. Nine. 2 A. I'll find it. 3 Q. There you go. Now, the column that says 2012 4 these are the numbers I'm sorry. The row with the y 5 2012 in the third column, do you see what I'm referring 6 to, Dr. Rodden? 7 A. Yes. 8 Q. That was the row of numbers that you just wen	, ear
2 3 4 5 6 7 8	of African-American candidates who would be elected under these various electoral arrangements, correct? A. Yes. Q. Now, they do not show the number of African-American preferred candidates, as you would define that term, who would be successful under these electoral arrangements, correct, Dr. Rodden? A. No. We didn't have any way of assessing that, given this approach. This was an attempt at understanding	1 Q. Nine. 2 A. I'll find it. 3 Q. There you go. Now, the column that says 2012 4 these are the numbers I'm sorry. The row with the y 5 2012 in the third column, do you see what I'm referring 6 to, Dr. Rodden? 7 A. Yes. 9 Q. That was the row of numbers that you just wen 9 over with Ms. Ormsby, correct?	, ear
2 3 4 5 6 7 8 9	of African-American candidates who would be elected under these various electoral arrangements, correct? A. Yes. Q. Now, they do not show the number of African-American preferred candidates, as you would define that term, who would be successful under these electoral arrangements, correct, Dr. Rodden? A. No. We didn't have any way of assessing that, given this approach. This was an attempt at understanding the effectiveness of Mr. Cooper's plans in potentially	1 Q. Nine. 2 A. I'll find it. 3 Q. There you go. Now, the column that says 2012 4 these are the numbers I'm sorry. The row with the y 5 2012 in the third column, do you see what I'm referring 6 to, Dr. Rodden? 7 A. Yes. 8 Q. That was the row of numbers that you just wen 9 over with Ms. Ormsby, correct? 10 A. Yes.	, ear 3
2 3 4 5 6 7 8 9 10	of African-American candidates who would be elected under these various electoral arrangements, correct? A. Yes. Q. Now, they do not show the number of African-American preferred candidates, as you would define that term, who would be successful under these electoral arrangements, correct, Dr. Rodden? A. No. We didn't have any way of assessing that, given this approach. This was an attempt at understanding the effectiveness of Mr. Cooper's plans in potentially electing minority candidates and we devised the best	1 Q. Nine. 2 A. I'll find it. 3 Q. There you go. Now, the column that says 2012 4 these are the numbers I'm sorry. The row with the y 5 2012 in the third column, do you see what I'm referring 6 to, Dr. Rodden? 7 A. Yes. 8 Q. That was the row of numbers that you just wen 9 over with Ms. Ormsby, correct? 10 A. Yes. 11 Q. And this is ACS data, the three-year estimates	, ear 3
2 3 4 5 6 7 8 9 10 11	of African-American candidates who would be elected under these various electoral arrangements, correct? A. Yes. Q. Now, they do not show the number of African-American preferred candidates, as you would define that term, who would be successful under these electoral arrangements, correct, Dr. Rodden? A. No. We didn't have any way of assessing that, given this approach. This was an attempt at understanding the effectiveness of Mr. Cooper's plans in potentially electing minority candidates and we devised the best strategy we could for answering that question.	1 Q. Nine. 2 A. I'll find it. 3 Q. There you go. Now, the column that says 2012 4 these are the numbers I'm sorry. The row with the y 5 2012 in the third column, do you see what I'm referring 6 to, Dr. Rodden? 7 A. Yes. 8 Q. That was the row of numbers that you just wen 9 over with Ms. Ormsby, correct? 10 A. Yes. 11 Q. And this is ACS data, the three-year estimates 12 for 2011 through 2013 which you present as voting age	, ear 3
2 3 4 5 6 7 8 9 10 11 12	of African-American candidates who would be elected under these various electoral arrangements, correct? A. Yes. Q. Now, they do not show the number of African-American preferred candidates, as you would define that term, who would be successful under these electoral arrangements, correct, Dr. Rodden? A. No. We didn't have any way of assessing that, given this approach. This was an attempt at understanding the effectiveness of Mr. Cooper's plans in potentially electing minority candidates and we devised the best strategy we could for answering that question. Q. But it's not an attempt to assess the	1 Q. Nine. 2 A. I'll find it. 3 Q. There you go. Now, the column that says 2012 4 these are the numbers I'm sorry. The row with the y 5 2012 in the third column, do you see what I'm referring 6 to, Dr. Rodden? 7 A. Yes. 8 Q. That was the row of numbers that you just wen 9 over with Ms. Ormsby, correct? 10 A. Yes. 11 Q. And this is ACS data, the three-year estimates 12 for 2011 through 2013 which you present as voting age 13 population for the school district in 2012, correct?	, ear 3
2 3 4 5 6 7 8 9 10 11 12 13	of African-American candidates who would be elected under these various electoral arrangements, correct? A. Yes. Q. Now, they do not show the number of African-American preferred candidates, as you would define that term, who would be successful under these electoral arrangements, correct, Dr. Rodden? A. No. We didn't have any way of assessing that, given this approach. This was an attempt at understanding the effectiveness of Mr. Cooper's plans in potentially electing minority candidates and we devised the best strategy we could for answering that question. Q. But it's not an attempt to assess the effectiveness of Mr. Cooper's plan in terms of electing	1 Q. Nine. 2 A. I'll find it. 3 Q. There you go. Now, the column that says 2012 4 these are the numbers I'm sorry. The row with the y 5 2012 in the third column, do you see what I'm referring 6 to, Dr. Rodden? 7 A. Yes. 8 Q. That was the row of numbers that you just wen 9 over with Ms. Ormsby, correct? 10 A. Yes. 11 Q. And this is ACS data, the three-year estimates 12 for 2011 through 2013 which you present as voting age 13 population for the school district in 2012, correct? 14 A. Yes.	ear J
2 3 4 5 6 7 8 9 10 11 12 13 14	of African-American candidates who would be elected under these various electoral arrangements, correct? A. Yes. Q. Now, they do not show the number of African-American preferred candidates, as you would define that term, who would be successful under these electoral arrangements, correct, Dr. Rodden? A. No. We didn't have any way of assessing that, given this approach. This was an attempt at understanding the effectiveness of Mr. Cooper's plans in potentially electing minority candidates and we devised the best strategy we could for answering that question. Q. But it's not an attempt to assess the effectiveness of Mr. Cooper's plan in terms of electing African-American preferred candidates who may or may not	1 Q. Nine. 2 A. I'll find it. 3 Q. There you go. Now, the column that says 2012 4 these are the numbers I'm sorry. The row with the y 5 2012 in the third column, do you see what I'm referring 6 to, Dr. Rodden? 7 A. Yes. 8 Q. That was the row of numbers that you just wen 9 over with Ms. Ormsby, correct? 10 A. Yes. 11 Q. And this is ACS data, the three-year estimates 12 for 2011 through 2013 which you present as voting age 13 population for the school district in 2012, correct? 14 A. Yes. 15 Q. And we established earlier that the ACS	ear J
2 3 4 5 6 7 8 9 10 11 12 13 14 15	of African-American candidates who would be elected under these various electoral arrangements, correct? A. Yes. Q. Now, they do not show the number of African-American preferred candidates, as you would define that term, who would be successful under these electoral arrangements, correct, Dr. Rodden? A. No. We didn't have any way of assessing that, given this approach. This was an attempt at understanding the effectiveness of Mr. Cooper's plans in potentially electing minority candidates and we devised the best strategy we could for answering that question. Q. But it's not an attempt to assess the effectiveness of Mr. Cooper's plan in terms of electing African-American preferred candidates who may or may not be African-American, correct?	1 Q. Nine. 2 A. I'll find it. 3 Q. There you go. Now, the column that says 2012 4 these are the numbers I'm sorry. The row with the y 5 2012 in the third column, do you see what I'm referring 6 to, Dr. Rodden? 7 A. Yes. 8 Q. That was the row of numbers that you just wen 9 over with Ms. Ormsby, correct? 10 A. Yes. 11 Q. And this is ACS data, the three-year estimates 12 for 2011 through 2013 which you present as voting age 13 population for the school district in 2012, correct? 14 A. Yes. 15 Q. And we established earlier that the ACS 16 numbers have error margins associated with them, corr	ear J
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	of African-American candidates who would be elected under these various electoral arrangements, correct? A. Yes. Q. Now, they do not show the number of African-American preferred candidates, as you would define that term, who would be successful under these electoral arrangements, correct, Dr. Rodden? A. No. We didn't have any way of assessing that, given this approach. This was an attempt at understanding the effectiveness of Mr. Cooper's plans in potentially electing minority candidates and we devised the best strategy we could for answering that question. Q. But it's not an attempt to assess the effectiveness of Mr. Cooper's plan in terms of electing African-American preferred candidates who may or may not be African-American, correct? A. We couldn't think of a way to make that to	1 Q. Nine. 2 A. I'll find it. 3 Q. There you go. Now, the column that says 2012 4 these are the numbers I'm sorry. The row with the y 5 2012 in the third column, do you see what I'm referring 6 to, Dr. Rodden? 7 A. Yes. 8 Q. That was the row of numbers that you just wen 9 over with Ms. Ormsby, correct? 10 A. Yes. 11 Q. And this is ACS data, the three-year estimates 12 for 2011 through 2013 which you present as voting age 13 population for the school district in 2012, correct? 14 A. Yes. 15 Q. And we established earlier that the ACS 16 numbers have error margins associated with them, correct.	ear J
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	of African-American candidates who would be elected under these various electoral arrangements, correct? A. Yes. Q. Now, they do not show the number of African-American preferred candidates, as you would define that term, who would be successful under these electoral arrangements, correct, Dr. Rodden? A. No. We didn't have any way of assessing that, given this approach. This was an attempt at understanding the effectiveness of Mr. Cooper's plans in potentially electing minority candidates and we devised the best strategy we could for answering that question. Q. But it's not an attempt to assess the effectiveness of Mr. Cooper's plan in terms of electing African-American preferred candidates who may or may not be African-American, correct? A. We couldn't think of a way to make that to do that, that's correct.	1 Q. Nine. 2 A. I'll find it. 3 Q. There you go. Now, the column that says 2012 4 these are the numbers I'm sorry. The row with the y 5 2012 in the third column, do you see what I'm referring 6 to, Dr. Rodden? 7 A. Yes. 8 Q. That was the row of numbers that you just wen 9 over with Ms. Ormsby, correct? 10 A. Yes. 11 Q. And this is ACS data, the three-year estimates 12 for 2011 through 2013 which you present as voting age 13 population for the school district in 2012, correct? 14 A. Yes. 15 Q. And we established earlier that the ACS 16 numbers have error margins associated with them, corr 17 A. Correct. 18 Q. There are confidence intervals, correct?	ear J
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	of African-American candidates who would be elected under these various electoral arrangements, correct? A. Yes. Q. Now, they do not show the number of African-American preferred candidates, as you would define that term, who would be successful under these electoral arrangements, correct, Dr. Rodden? A. No. We didn't have any way of assessing that, given this approach. This was an attempt at understanding the effectiveness of Mr. Cooper's plans in potentially electing minority candidates and we devised the best strategy we could for answering that question. Q. But it's not an attempt to assess the effectiveness of Mr. Cooper's plan in terms of electing African-American preferred candidates who may or may not be African-American, correct? A. We couldn't think of a way to make that to do that, that's correct. Q. Okay. And this table both of these tables,	1 Q. Nine. 2 A. I'll find it. 3 Q. There you go. Now, the column that says 2012 4 these are the numbers I'm sorry. The row with the y 5 2012 in the third column, do you see what I'm referring 6 to, Dr. Rodden? 7 A. Yes. 8 Q. That was the row of numbers that you just wen 9 over with Ms. Ormsby, correct? 10 A. Yes. 11 Q. And this is ACS data, the three-year estimates 12 for 2011 through 2013 which you present as voting age 13 population for the school district in 2012, correct? 14 A. Yes. 15 Q. And we established earlier that the ACS 16 numbers have error margins associated with them, corr 17 A. Correct. 18 Q. There are confidence intervals, correct? 19 A. Yes, correct.	ear J
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	of African-American candidates who would be elected under these various electoral arrangements, correct? A. Yes. Q. Now, they do not show the number of African-American preferred candidates, as you would define that term, who would be successful under these electoral arrangements, correct, Dr. Rodden? A. No. We didn't have any way of assessing that, given this approach. This was an attempt at understanding the effectiveness of Mr. Cooper's plans in potentially electing minority candidates and we devised the best strategy we could for answering that question. Q. But it's not an attempt to assess the effectiveness of Mr. Cooper's plan in terms of electing African-American preferred candidates who may or may not be African-American, correct? A. We couldn't think of a way to make that to do that, that's correct. Q. Okay. And this table both of these tables, Table 2 in the report, and Defendant's Q, they assume that	1 Q. Nine. 2 A. I'll find it. 3 Q. There you go. Now, the column that says 2012 4 these are the numbers I'm sorry. The row with the y 5 2012 in the third column, do you see what I'm referring 6 to, Dr. Rodden? 7 A. Yes. 8 Q. That was the row of numbers that you just wen 9 over with Ms. Ormsby, correct? 10 A. Yes. 11 Q. And this is ACS data, the three-year estimates 12 for 2011 through 2013 which you present as voting age 13 population for the school district in 2012, correct? 14 A. Yes. 15 Q. And we established earlier that the ACS 16 numbers have error margins associated with them, corr 17 A. Correct. 18 Q. There are confidence intervals, correct? 19 A. Yes, correct. 20 What you represent in this row are the point	ear J
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	of African-American candidates who would be elected under these various electoral arrangements, correct? A. Yes. Q. Now, they do not show the number of African-American preferred candidates, as you would define that term, who would be successful under these electoral arrangements, correct, Dr. Rodden? A. No. We didn't have any way of assessing that, given this approach. This was an attempt at understanding the effectiveness of Mr. Cooper's plans in potentially electing minority candidates and we devised the best strategy we could for answering that question. Q. But it's not an attempt to assess the effectiveness of Mr. Cooper's plan in terms of electing African-American preferred candidates who may or may not be African-American, correct? A. We couldn't think of a way to make that to do that, that's correct. Q. Okay. And this table both of these tables, Table 2 in the report, and Defendant's Q, they assume that under Mr. Cooper's illustrative plans, that all seven	1 Q. Nine. 2 A. I'll find it. 3 Q. There you go. Now, the column that says 2012 4 these are the numbers I'm sorry. The row with the y 5 2012 in the third column, do you see what I'm referring 6 to, Dr. Rodden? 7 A. Yes. 8 Q. That was the row of numbers that you just wen 9 over with Ms. Ormsby, correct? 10 A. Yes. 11 Q. And this is ACS data, the three-year estimates 12 for 2011 through 2013 which you present as voting age 13 population for the school district in 2012, correct? 14 A. Yes. 15 Q. And we established earlier that the ACS 16 numbers have error margins associated with them, corn 17 A. Correct. 18 Q. There are confidence intervals, correct? 19 A. Yes, correct. 20 Q. What you represent in this row are the point 21 estimates, correct?	ear J
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	of African-American candidates who would be elected under these various electoral arrangements, correct? A. Yes. Q. Now, they do not show the number of African-American preferred candidates, as you would define that term, who would be successful under these electoral arrangements, correct, Dr. Rodden? A. No. We didn't have any way of assessing that, given this approach. This was an attempt at understanding the effectiveness of Mr. Cooper's plans in potentially electing minority candidates and we devised the best strategy we could for answering that question. Q. But it's not an attempt to assess the effectiveness of Mr. Cooper's plan in terms of electing African-American preferred candidates who may or may not be African-American, correct? A. We couldn't think of a way to make that to do that, that's correct. Q. Okay. And this table both of these tables, Table 2 in the report, and Defendant's Q, they assume that under Mr. Cooper's illustrative plans, that all seven seats would be up for election at the same time, correct?	1 Q. Nine. 2 A. I'll find it. 3 Q. There you go. Now, the column that says 2012 4 these are the numbers I'm sorry. The row with the y 5 2012 in the third column, do you see what I'm referring 6 to, Dr. Rodden? 7 A. Yes. 8 Q. That was the row of numbers that you just wen 9 over with Ms. Ormsby, correct? 10 A. Yes. 11 Q. And this is ACS data, the three-year estimates 12 for 2011 through 2013 which you present as voting age 13 population for the school district in 2012, correct? 14 A. Yes. 15 Q. And we established earlier that the ACS 16 numbers have error margins associated with them, corr 17 A. Correct. 18 Q. There are confidence intervals, correct? 19 A. Yes, correct. 20 Q. What you represent in this row are the point 21 estimates, correct? 22 A. Correct.	ear int
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	of African-American candidates who would be elected under these various electoral arrangements, correct? A. Yes. Q. Now, they do not show the number of African-American preferred candidates, as you would define that term, who would be successful under these electoral arrangements, correct, Dr. Rodden? A. No. We didn't have any way of assessing that, given this approach. This was an attempt at understanding the effectiveness of Mr. Cooper's plans in potentially electing minority candidates and we devised the best strategy we could for answering that question. Q. But it's not an attempt to assess the effectiveness of Mr. Cooper's plan in terms of electing African-American preferred candidates who may or may not be African-American, correct? A. We couldn't think of a way to make that to do that, that's correct. Q. Okay. And this table both of these tables, Table 2 in the report, and Defendant's Q, they assume that under Mr. Cooper's illustrative plans, that all seven seats would be up for election at the same time, correct? A. That was our understanding of what Mr. Cooper	1 Q. Nine. 2 A. I'll find it. 3 Q. There you go. Now, the column that says 2012 4 these are the numbers I'm sorry. The row with the y 5 2012 in the third column, do you see what I'm referring 6 to, Dr. Rodden? 7 A. Yes. 8 Q. That was the row of numbers that you just wen 9 over with Ms. Ormsby, correct? 10 A. Yes. 11 Q. And this is ACS data, the three-year estimates 12 for 2011 through 2013 which you present as voting age 13 population for the school district in 2012, correct? 14 A. Yes. 15 Q. And we established earlier that the ACS 16 numbers have error margins associated with them, correct. 18 Q. There are confidence intervals, correct? 19 A. Yes, correct. 20 Q. What you represent in this row are the point 21 estimates, correct? 22 A. Correct. 23 Q. And we don't know, do we, whether or not the	ear

	Page 353		Page 355
1	higher or lower than that point estimate?	1	minority-preferred candidate, five out of the 13
2	A. It could be.	2	minority-preferred candidates were successful, correct?
3	Q. There is a range of numbers that we know to a	3	A. Correct.
4	degree of statistical certainty of about 95 percent for	4	Q. So a majority of the black-preferred
5	the true value these numbers could be?	5	candidates in the last 10 years, using this decision rule
6	A. And I don't present those confidence intervals	6	to determine who's a black-preferred candidate, were
7	here, correct. I believe they're in the table somewhere.	7	unsuccessful, correct?
8	Q. But the numbers that you were going over with	8	A. Correct.
9	Ms. Ormsby, those were the point estimate numbers,	9	Q. And the percentage of successful
10	correct?	10	black-preferred candidates over the last 10 years, using
11	A. Yes.	11	this decision rule, is lower than the percentage of
12	Q. So when you say that 100 more or I think	12	successful black-preferred candidates over the entire span
13	you said about 140 more people would give African	13	here, correct?
14	Americans a majority of the voting age population in the	14	A. Correct.
15	Ferguson-Florissant school district, that's using the	15	Q. And if we just use the last five years of
16	point estimates, correct?	16	elections, using this decision rule to determine who's a
17	A. Yes.	17	black-preferred candidate, three out of the nine
18	Q. And the number could actually be more than	18	black-preferred candidates were successful, correct?
19	that if you take confidence intervals into account,	19	A. Correct.
20	correct, Dr. Rodden?	20	Q. And a majority of black-preferred candidates,
21	A. Just as likely to be lower than that.	21	using this decision rule to determine who's a
22	Q. But we don't know either way, correct?	22	-
23	A. We don't know.	23	black-preferred candidate, were unsuccessful over the past
24	Q. Okay. You went over Exhibit 13 with Ms.	23	five years, correct?
25	Ormsby, Dr. Rodden, Exhibit 13, right?	25	A. That's correct.
23	omissy, st. Rodden, Exhibit 13, right.	25	Q. And looking at the last five years alone, the
	Page 354		D 256
	1 agc 334		Page 356
1	A. Yes.	1	Page 356 success rate of black-preferred candidates is lower than
1 2	-	1 2	
	A. Yes.		success rate of black-preferred candidates is lower than
2	A. Yes.Q. And just so the record is clear, Exhibit 13 is	2	success rate of black-preferred candidates is lower than looking at the last 10 years, correct?
2 3	A. Yes.Q. And just so the record is clear, Exhibit 13 is this is the one in which we used the decision rule	2	success rate of black-preferred candidates is lower than looking at the last 10 years, correct? A. That is I'm sorry. Last five years is
2 3 4	A. Yes. Q. And just so the record is clear, Exhibit 13 is this is the one in which we used the decision rule about statistical significance for assessing who is a	2 3 4	success rate of black-preferred candidates is lower than looking at the last 10 years, correct? A. That is I'm sorry. Last five years is lower than yes, that is still true, yes.
2 3 4 5	A. Yes. Q. And just so the record is clear, Exhibit 13 is this is the one in which we used the decision rule about statistical significance for assessing who is a black-preferred candidate and who is a white-preferred	2 3 4 5	success rate of black-preferred candidates is lower than looking at the last 10 years, correct? A. That is I'm sorry. Last five years is lower than yes, that is still true, yes. Q. Okay. And just so the record is really clear,
2 3 4 5 6	A. Yes. Q. And just so the record is clear, Exhibit 13 is this is the one in which we used the decision rule about statistical significance for assessing who is a black-preferred candidate and who is a white-preferred candidate, correct?	2 3 4 5 6	success rate of black-preferred candidates is lower than looking at the last 10 years, correct? A. That is I'm sorry. Last five years is lower than yes, that is still true, yes. Q. Okay. And just so the record is really clear, you have two decision rules that you propose and would
2 3 4 5 6 7	A. Yes. Q. And just so the record is clear, Exhibit 13 is this is the one in which we used the decision rule about statistical significance for assessing who is a black-preferred candidate and who is a white-preferred candidate, correct? A. Correct.	2 3 4 5 6 7	success rate of black-preferred candidates is lower than looking at the last 10 years, correct? A. That is I'm sorry. Last five years is lower than yes, that is still true, yes. Q. Okay. And just so the record is really clear, you have two decision rules that you propose and would endorse as a political scientist to assess who's a
2 3 4 5 6 7 8	A. Yes. Q. And just so the record is clear, Exhibit 13 is this is the one in which we used the decision rule about statistical significance for assessing who is a black-preferred candidate and who is a white-preferred candidate, correct? A. Correct. Q. This is the decision rule that you would not	2 3 4 5 6 7 8	success rate of black-preferred candidates is lower than looking at the last 10 years, correct? A. That is I'm sorry. Last five years is lower than yes, that is still true, yes. Q. Okay. And just so the record is really clear, you have two decision rules that you propose and would endorse as a political scientist to assess who's a minority-preferred candidate in your report, correct?
2 3 4 5 6 7 8	A. Yes. Q. And just so the record is clear, Exhibit 13 is this is the one in which we used the decision rule about statistical significance for assessing who is a black-preferred candidate and who is a white-preferred candidate, correct? A. Correct. Q. This is the decision rule that you would not endorse, correct?	2 3 4 5 6 7 8	success rate of black-preferred candidates is lower than looking at the last 10 years, correct? A. That is I'm sorry. Last five years is lower than yes, that is still true, yes. Q. Okay. And just so the record is really clear, you have two decision rules that you propose and would endorse as a political scientist to assess who's a minority-preferred candidate in your report, correct? A. Correct.
2 3 4 5 6 7 8 9	A. Yes. Q. And just so the record is clear, Exhibit 13 is this is the one in which we used the decision rule about statistical significance for assessing who is a black-preferred candidate and who is a white-preferred candidate, correct? A. Correct. Q. This is the decision rule that you would not endorse, correct? A. That's correct.	2 3 4 5 6 7 8 9	success rate of black-preferred candidates is lower than looking at the last 10 years, correct? A. That is I'm sorry. Last five years is lower than yes, that is still true, yes. Q. Okay. And just so the record is really clear, you have two decision rules that you propose and would endorse as a political scientist to assess who's a minority-preferred candidate in your report, correct? A. Correct. Q. One is the highest-ranked black candidate is
2 3 4 5 6 7 8 9 10	 A. Yes. Q. And just so the record is clear, Exhibit 13 is this is the one in which we used the decision rule about statistical significance for assessing who is a black-preferred candidate and who is a white-preferred candidate, correct? A. Correct. Q. This is the decision rule that you would not endorse, correct? A. That's correct. Q. But using that decision rule and using this 	2 3 4 5 6 7 8 9 10	success rate of black-preferred candidates is lower than looking at the last 10 years, correct? A. That is I'm sorry. Last five years is lower than yes, that is still true, yes. Q. Okay. And just so the record is really clear, you have two decision rules that you propose and would endorse as a political scientist to assess who's a minority-preferred candidate in your report, correct? A. Correct. Q. One is the highest-ranked black candidate is the minority-preferred candidate and we ignore the rest,
2 3 4 5 6 7 8 9 10 11 12	A. Yes. Q. And just so the record is clear, Exhibit 13 is this is the one in which we used the decision rule about statistical significance for assessing who is a black-preferred candidate and who is a white-preferred candidate, correct? A. Correct. Q. This is the decision rule that you would not endorse, correct? A. That's correct. Q. But using that decision rule and using this chart, right, if we look at the total, there are, after	2 3 4 5 6 7 8 9 10 11	success rate of black-preferred candidates is lower than looking at the last 10 years, correct? A. That is I'm sorry. Last five years is lower than yes, that is still true, yes. Q. Okay. And just so the record is really clear, you have two decision rules that you propose and would endorse as a political scientist to assess who's a minority-preferred candidate in your report, correct? A. Correct. Q. One is the highest-ranked black candidate is the minority-preferred candidate and we ignore the rest, correct?
2 3 4 5 6 7 8 9 10 11 12 13	A. Yes. Q. And just so the record is clear, Exhibit 13 is this is the one in which we used the decision rule about statistical significance for assessing who is a black-preferred candidate and who is a white-preferred candidate, correct? A. Correct. Q. This is the decision rule that you would not endorse, correct? A. That's correct. Q. But using that decision rule and using this chart, right, if we look at the total, there are, after the revisions that you just made, 20 black-preferred	2 3 4 5 6 7 8 9 10 11 12	success rate of black-preferred candidates is lower than looking at the last 10 years, correct? A. That is I'm sorry. Last five years is lower than yes, that is still true, yes. Q. Okay. And just so the record is really clear, you have two decision rules that you propose and would endorse as a political scientist to assess who's a minority-preferred candidate in your report, correct? A. Correct. Q. One is the highest-ranked black candidate is the minority-preferred candidate and we ignore the rest, correct? A. Correct.
2 3 4 5 6 7 8 9 10 11 12 13	A. Yes. Q. And just so the record is clear, Exhibit 13 is this is the one in which we used the decision rule about statistical significance for assessing who is a black-preferred candidate and who is a white-preferred candidate, correct? A. Correct. Q. This is the decision rule that you would not endorse, correct? A. That's correct. Q. But using that decision rule and using this chart, right, if we look at the total, there are, after the revisions that you just made, 20 black-preferred candidates over the past over all of the elections that	2 3 4 5 6 7 8 9 10 11 12 13	success rate of black-preferred candidates is lower than looking at the last 10 years, correct? A. That is I'm sorry. Last five years is lower than yes, that is still true, yes. Q. Okay. And just so the record is really clear, you have two decision rules that you propose and would endorse as a political scientist to assess who's a minority-preferred candidate in your report, correct? A. Correct. Q. One is the highest-ranked black candidate is the minority-preferred candidate and we ignore the rest, correct? A. Correct. Q. And the results of that the results of
2 3 4 5 6 7 8 9 10 11 12 13 14 15	A. Yes. Q. And just so the record is clear, Exhibit 13 is this is the one in which we used the decision rule about statistical significance for assessing who is a black-preferred candidate and who is a white-preferred candidate, correct? A. Correct. Q. This is the decision rule that you would not endorse, correct? A. That's correct. Q. But using that decision rule and using this chart, right, if we look at the total, there are, after the revisions that you just made, 20 black-preferred candidates over the past over all of the elections that you consider back to 2000, correct?	2 3 4 5 6 7 8 9 10 11 12 13 14	success rate of black-preferred candidates is lower than looking at the last 10 years, correct? A. That is I'm sorry. Last five years is lower than yes, that is still true, yes. Q. Okay. And just so the record is really clear, you have two decision rules that you propose and would endorse as a political scientist to assess who's a minority-preferred candidate in your report, correct? A. Correct. Q. One is the highest-ranked black candidate is the minority-preferred candidate and we ignore the rest, correct? A. Correct. Q. And the results of that the results of applying that decision rule to minority candidates'
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	A. Yes. Q. And just so the record is clear, Exhibit 13 is this is the one in which we used the decision rule about statistical significance for assessing who is a black-preferred candidate and who is a white-preferred candidate, correct? A. Correct. Q. This is the decision rule that you would not endorse, correct? A. That's correct. Q. But using that decision rule and using this chart, right, if we look at the total, there are, after the revisions that you just made, 20 black-preferred candidates over the past over all of the elections that you consider back to 2000, correct? A. Correct.	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	success rate of black-preferred candidates is lower than looking at the last 10 years, correct? A. That is I'm sorry. Last five years is lower than yes, that is still true, yes. Q. Okay. And just so the record is really clear, you have two decision rules that you propose and would endorse as a political scientist to assess who's a minority-preferred candidate in your report, correct? A. Correct. Q. One is the highest-ranked black candidate is the minority-preferred candidate and we ignore the rest, correct? A. Correct. Q. And the results of that the results of applying that decision rule to minority candidates' success in the Ferguson-Florissant school district are
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	A. Yes. Q. And just so the record is clear, Exhibit 13 is this is the one in which we used the decision rule about statistical significance for assessing who is a black-preferred candidate and who is a white-preferred candidate, correct? A. Correct. Q. This is the decision rule that you would not endorse, correct? A. That's correct. Q. But using that decision rule and using this chart, right, if we look at the total, there are, after the revisions that you just made, 20 black-preferred candidates over the past over all of the elections that you consider back to 2000, correct? A. Correct. Q. And eight out of 20 of those black-preferred	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	success rate of black-preferred candidates is lower than looking at the last 10 years, correct? A. That is I'm sorry. Last five years is lower than yes, that is still true, yes. Q. Okay. And just so the record is really clear, you have two decision rules that you propose and would endorse as a political scientist to assess who's a minority-preferred candidate in your report, correct? A. Correct. Q. One is the highest-ranked black candidate is the minority-preferred candidate and we ignore the rest, correct? A. Correct. Q. And the results of that the results of applying that decision rule to minority candidates' success in the Ferguson-Florissant school district are represented in Exhibit 18, correct?
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	A. Yes. Q. And just so the record is clear, Exhibit 13 is this is the one in which we used the decision rule about statistical significance for assessing who is a black-preferred candidate and who is a white-preferred candidate, correct? A. Correct. Q. This is the decision rule that you would not endorse, correct? A. That's correct. Q. But using that decision rule and using this chart, right, if we look at the total, there are, after the revisions that you just made, 20 black-preferred candidates over the past over all of the elections that you consider back to 2000, correct? A. Correct. Q. And eight out of 20 of those black-preferred candidates were successful, correct?	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	success rate of black-preferred candidates is lower than looking at the last 10 years, correct? A. That is I'm sorry. Last five years is lower than yes, that is still true, yes. Q. Okay. And just so the record is really clear, you have two decision rules that you propose and would endorse as a political scientist to assess who's a minority-preferred candidate in your report, correct? A. Correct. Q. One is the highest-ranked black candidate is the minority-preferred candidate and we ignore the rest, correct? A. Correct. Q. And the results of that the results of applying that decision rule to minority candidates' success in the Ferguson-Florissant school district are represented in Exhibit 18, correct? A. Correct.
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	A. Yes. Q. And just so the record is clear, Exhibit 13 is this is the one in which we used the decision rule about statistical significance for assessing who is a black-preferred candidate and who is a white-preferred candidate, correct? A. Correct. Q. This is the decision rule that you would not endorse, correct? A. That's correct. Q. But using that decision rule and using this chart, right, if we look at the total, there are, after the revisions that you just made, 20 black-preferred candidates over the past over all of the elections that you consider back to 2000, correct? A. Correct. Q. And eight out of 20 of those black-preferred candidates were successful, correct? A. Correct.	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	success rate of black-preferred candidates is lower than looking at the last 10 years, correct? A. That is I'm sorry. Last five years is lower than yes, that is still true, yes. Q. Okay. And just so the record is really clear, you have two decision rules that you propose and would endorse as a political scientist to assess who's a minority-preferred candidate in your report, correct? A. Correct. Q. One is the highest-ranked black candidate is the minority-preferred candidate and we ignore the rest, correct? A. Correct. Q. And the results of that the results of applying that decision rule to minority candidates' success in the Ferguson-Florissant school district are represented in Exhibit 18, correct? A. Correct. Q. Okay. And the other decision rule you propose
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	A. Yes. Q. And just so the record is clear, Exhibit 13 is this is the one in which we used the decision rule about statistical significance for assessing who is a black-preferred candidate and who is a white-preferred candidate, correct? A. Correct. Q. This is the decision rule that you would not endorse, correct? A. That's correct. Q. But using that decision rule and using this chart, right, if we look at the total, there are, after the revisions that you just made, 20 black-preferred candidates over the past over all of the elections that you consider back to 2000, correct? A. Correct. Q. And eight out of 20 of those black-preferred candidates were successful, correct? A. Correct. Q. So a majority of the black-preferred	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	success rate of black-preferred candidates is lower than looking at the last 10 years, correct? A. That is I'm sorry. Last five years is lower than yes, that is still true, yes. Q. Okay. And just so the record is really clear, you have two decision rules that you propose and would endorse as a political scientist to assess who's a minority-preferred candidate in your report, correct? A. Correct. Q. One is the highest-ranked black candidate is the minority-preferred candidate and we ignore the rest, correct? A. Correct. Q. And the results of that the results of applying that decision rule to minority candidates' success in the Ferguson-Florissant school district are represented in Exhibit 18, correct? A. Correct. Q. Okay. And the other decision rule you propose and that you would endorse as a political scientist for
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	A. Yes. Q. And just so the record is clear, Exhibit 13 is this is the one in which we used the decision rule about statistical significance for assessing who is a black-preferred candidate and who is a white-preferred candidate, correct? A. Correct. Q. This is the decision rule that you would not endorse, correct? A. That's correct. Q. But using that decision rule and using this chart, right, if we look at the total, there are, after the revisions that you just made, 20 black-preferred candidates over the past over all of the elections that you consider back to 2000, correct? A. Correct. Q. And eight out of 20 of those black-preferred candidates were successful, correct? A. Correct. Q. So a majority of the black-preferred candidates, using this decision rule, were unsuccessful,	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	success rate of black-preferred candidates is lower than looking at the last 10 years, correct? A. That is I'm sorry. Last five years is lower than yes, that is still true, yes. Q. Okay. And just so the record is really clear, you have two decision rules that you propose and would endorse as a political scientist to assess who's a minority-preferred candidate in your report, correct? A. Correct. Q. One is the highest-ranked black candidate is the minority-preferred candidate and we ignore the rest, correct? A. Correct. Q. And the results of that the results of applying that decision rule to minority candidates' success in the Ferguson-Florissant school district are represented in Exhibit 18, correct? A. Correct. Q. Okay. And the other decision rule you propose and that you would endorse as a political scientist for assessing who's a minority-preferred candidate by using
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	A. Yes. Q. And just so the record is clear, Exhibit 13 is this is the one in which we used the decision rule about statistical significance for assessing who is a black-preferred candidate and who is a white-preferred candidate, correct? A. Correct. Q. This is the decision rule that you would not endorse, correct? A. That's correct. Q. But using that decision rule and using this chart, right, if we look at the total, there are, after the revisions that you just made, 20 black-preferred candidates over the past over all of the elections that you consider back to 2000, correct? A. Correct. Q. And eight out of 20 of those black-preferred candidates were successful, correct? A. Correct. Q. So a majority of the black-preferred candidates, using this decision rule, were unsuccessful, correct?	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	success rate of black-preferred candidates is lower than looking at the last 10 years, correct? A. That is I'm sorry. Last five years is lower than yes, that is still true, yes. Q. Okay. And just so the record is really clear, you have two decision rules that you propose and would endorse as a political scientist to assess who's a minority-preferred candidate in your report, correct? A. Correct. Q. One is the highest-ranked black candidate is the minority-preferred candidate and we ignore the rest, correct? A. Correct. Q. And the results of that the results of applying that decision rule to minority candidates' success in the Ferguson-Florissant school district are represented in Exhibit 18, correct? A. Correct. Q. Okay. And the other decision rule you propose and that you would endorse as a political scientist for assessing who's a minority-preferred candidate by using just the highest point estimate, the highest two point
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	A. Yes. Q. And just so the record is clear, Exhibit 13 is this is the one in which we used the decision rule about statistical significance for assessing who is a black-preferred candidate and who is a white-preferred candidate, correct? A. Correct. Q. This is the decision rule that you would not endorse, correct? A. That's correct. Q. But using that decision rule and using this chart, right, if we look at the total, there are, after the revisions that you just made, 20 black-preferred candidates over the past over all of the elections that you consider back to 2000, correct? A. Correct. Q. And eight out of 20 of those black-preferred candidates were successful, correct? A. Correct. Q. So a majority of the black-preferred candidates, using this decision rule, were unsuccessful, correct? A. That is correct.	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	success rate of black-preferred candidates is lower than looking at the last 10 years, correct? A. That is I'm sorry. Last five years is lower than yes, that is still true, yes. Q. Okay. And just so the record is really clear, you have two decision rules that you propose and would endorse as a political scientist to assess who's a minority-preferred candidate in your report, correct? A. Correct. Q. One is the highest-ranked black candidate is the minority-preferred candidate and we ignore the rest, correct? A. Correct. Q. And the results of that the results of applying that decision rule to minority candidates' success in the Ferguson-Florissant school district are represented in Exhibit 18, correct? A. Correct. Q. Okay. And the other decision rule you propose and that you would endorse as a political scientist for assessing who's a minority-preferred candidate by using just the highest point estimate, the highest two point estimate in a two-seat election and the highest three

	Page 357		Page 359
1	Q. Okay. And those are the only two decision	1	A. That's correct.
2	rules that you propose and that you would endorse in	2	Q. Okay. And in each instance of a rate of
3	assessing who's a minority-preferred candidate, correct?	3	success for minority-preferred candidates, whether we look
4	A. Correct.	4	at the entire time frame, the last 10 years, or the last
5	Q. And using that point estimate decision rule,	5	five years, using this definition of preferred candidates
6	minority-preferred candidate success as compared to	6	as those candidates with the highest point estimate of
7		7	
8	white-preferred candidate success is accurately reflected in Exhibit 12, correct?	8	support, in each instance the white-preferred candidate
9	A. Correct.	9	success rate exceeds the black-preferred candidate success
		10	rate, correct?
10	Q. And it is true, is it not, Dr. Rodden, that		A. That's correct.
11	using this decision rule that you endorse as a political	11	Q. Okay. Sorry. Very briefly, and then we're
12	scientist of using the point estimates to determine who is	12	finished, I promise. Exhibit 18, this is the other
13	a minority-preferred candidate, that a majority of	13	decision rule that you propose, correct?
14	minority-preferred candidates have not won elections in	14	A. Yes.
15	the contested elections from 2000 through 2015, correct?	15	Q. For assessing who's a preferred minority
16	A. In the contested elections, that is correct.	16	candidate. We did the highest point estimate, and we will
17	Q. And if we just look at the last 10 years,	17	explore the other one, correct?
18	using this decision rule of point estimates to determine	18	A. Correct.
19	who are minority-preferred candidates, a majority of	19	Q. When we look at this, the overall success rate
20	minority-preferred candidates were not successful over the	20	for top-ranked candidates amongst African-Americans, using
21	last 10 years; is that correct?	21	this decision rule, is six out of 12 or 50 percent
22	A. That's correct.	22	exactly, correct, Dr. Rodden?
23	Q. Six out of 16 minority-preferred candidates	23	A. Correct.
24	were successful in the last 10 years, using this decision	24	Q. And but if we look at just the last 10 years,
25	rule, as opposed to 13 out of 27 over the entire time	25	the success rate is three out of seven minority-preferred
	Page 358		Page 360
1	period, correct?	1	candidates, using this decision rule of the top-ranked
2	A. Correct.		··· · · · · · · · · · · · · · · · · ·
		2	minority candidates, correct?
3	Q. So if we look at just the last 10 years	3	minority candidates, correct? A. Correct.
3 4	Q. So if we look at just the last 10 years compared to the entire time period, the rate of		-
	Q. So if we look at just the last 10 years compared to the entire time period, the rate of minority-preferred candidates' success is smaller in the	3	A. Correct.
4	compared to the entire time period, the rate of minority-preferred candidates' success is smaller in the	3 4	A. Correct. Q. So the success rate for minority-preferred
4 5	compared to the entire time period, the rate of	3 4 5	A. Correct. Q. So the success rate for minority-preferred candidates, using this decision rule of top-ranked
4 5 6	compared to the entire time period, the rate of minority-preferred candidates' success is smaller in the last 10 years as compared to the entire time frame 2000 to	3 4 5 6	A. Correct. Q. So the success rate for minority-preferred candidates, using this decision rule of top-ranked candidates among minority voters, is lower in the last 10
4 5 6 7	compared to the entire time period, the rate of minority-preferred candidates' success is smaller in the last 10 years as compared to the entire time frame 2000 to 2015?	3 4 5 6 7	A. Correct. Q. So the success rate for minority-preferred candidates, using this decision rule of top-ranked candidates among minority voters, is lower in the last 10 years as compared to the time frame as a whole, correct,
4 5 6 7 8	compared to the entire time period, the rate of minority-preferred candidates' success is smaller in the last 10 years as compared to the entire time frame 2000 to 2015? A. But as I've testified repeatedly, that is	3 4 5 6 7 8	A. Correct. Q. So the success rate for minority-preferred candidates, using this decision rule of top-ranked candidates among minority voters, is lower in the last 10 years as compared to the time frame as a whole, correct, Dr. Rodden?
4 5 6 7 8 9	compared to the entire time period, the rate of minority-preferred candidates' success is smaller in the last 10 years as compared to the entire time frame 2000 to 2015? A. But as I've testified repeatedly, that is based on some elections that were won by exceedingly small	3 4 5 6 7 8	A. Correct. Q. So the success rate for minority-preferred candidates, using this decision rule of top-ranked candidates among minority voters, is lower in the last 10 years as compared to the time frame as a whole, correct, Dr. Rodden? A. Correct.
4 5 6 7 8 9	compared to the entire time period, the rate of minority-preferred candidates' success is smaller in the last 10 years as compared to the entire time frame 2000 to 2015? A. But as I've testified repeatedly, that is based on some elections that were won by exceedingly small number of votes, and a very small number of votes would	3 4 5 6 7 8 9	A. Correct. Q. So the success rate for minority-preferred candidates, using this decision rule of top-ranked candidates among minority voters, is lower in the last 10 years as compared to the time frame as a whole, correct, Dr. Rodden? A. Correct. Q. And if we look at just the last five years and
4 5 6 7 8 9 10 11	compared to the entire time period, the rate of minority-preferred candidates' success is smaller in the last 10 years as compared to the entire time frame 2000 to 2015? A. But as I've testified repeatedly, that is based on some elections that were won by exceedingly small number of votes, and a very small number of votes would change those results substantially.	3 4 5 6 7 8 9 10	A. Correct. Q. So the success rate for minority-preferred candidates, using this decision rule of top-ranked candidates among minority voters, is lower in the last 10 years as compared to the time frame as a whole, correct, Dr. Rodden? A. Correct. Q. And if we look at just the last five years and just look at top-ranked
4 5 6 7 8 9 10 11	compared to the entire time period, the rate of minority-preferred candidates' success is smaller in the last 10 years as compared to the entire time frame 2000 to 2015? A. But as I've testified repeatedly, that is based on some elections that were won by exceedingly small number of votes, and a very small number of votes would change those results substantially. Q. But that didn't happen, right, Dr. Rodden?	3 4 5 6 7 8 9 10 11	A. Correct. Q. So the success rate for minority-preferred candidates, using this decision rule of top-ranked candidates among minority voters, is lower in the last 10 years as compared to the time frame as a whole, correct, Dr. Rodden? A. Correct. Q. And if we look at just the last five years and just look at top-ranked members or the top-ranked candidates among which you endorse as a decision rule for
4 5 6 7 8 9 10 11 12 13	compared to the entire time period, the rate of minority-preferred candidates' success is smaller in the last 10 years as compared to the entire time frame 2000 to 2015? A. But as I've testified repeatedly, that is based on some elections that were won by exceedingly small number of votes, and a very small number of votes would change those results substantially. Q. But that didn't happen, right, Dr. Rodden? This is what happened, what's reflected in Exhibit 12,	3 4 5 6 7 8 9 10 11 12 13	A. Correct. Q. So the success rate for minority-preferred candidates, using this decision rule of top-ranked candidates among minority voters, is lower in the last 10 years as compared to the time frame as a whole, correct, Dr. Rodden? A. Correct. Q. And if we look at just the last five years and just look at top-ranked members or the top-ranked candidates among which you endorse as a decision rule for assessing who is a preferred candidate, the success rate
4 5 6 7 8 9 10 11 12 13	compared to the entire time period, the rate of minority-preferred candidates' success is smaller in the last 10 years as compared to the entire time frame 2000 to 2015? A. But as I've testified repeatedly, that is based on some elections that were won by exceedingly small number of votes, and a very small number of votes would change those results substantially. Q. But that didn't happen, right, Dr. Rodden? This is what happened, what's reflected in Exhibit 12, correct?	3 4 5 6 7 8 9 10 11 12 13 14	A. Correct. Q. So the success rate for minority-preferred candidates, using this decision rule of top-ranked candidates among minority voters, is lower in the last 10 years as compared to the time frame as a whole, correct, Dr. Rodden? A. Correct. Q. And if we look at just the last five years and just look at top-ranked members or the top-ranked candidates among which you endorse as a decision rule for assessing who is a preferred candidate, the success rate is two out of five, correct?
4 5 6 7 8 9 10 11 12 13 14 15	compared to the entire time period, the rate of minority-preferred candidates' success is smaller in the last 10 years as compared to the entire time frame 2000 to 2015? A. But as I've testified repeatedly, that is based on some elections that were won by exceedingly small number of votes, and a very small number of votes would change those results substantially. Q. But that didn't happen, right, Dr. Rodden? This is what happened, what's reflected in Exhibit 12, correct? A. That's correct.	3 4 5 6 7 8 9 10 11 12 13 14 15	A. Correct. Q. So the success rate for minority-preferred candidates, using this decision rule of top-ranked candidates among minority voters, is lower in the last 10 years as compared to the time frame as a whole, correct, Dr. Rodden? A. Correct. Q. And if we look at just the last five years and just look at top-ranked members or the top-ranked candidates among which you endorse as a decision rule for assessing who is a preferred candidate, the success rate is two out of five, correct? A. Correct.
4 5 6 7 8 9 10 11 12 13 14 15	compared to the entire time period, the rate of minority-preferred candidates' success is smaller in the last 10 years as compared to the entire time frame 2000 to 2015? A. But as I've testified repeatedly, that is based on some elections that were won by exceedingly small number of votes, and a very small number of votes would change those results substantially. Q. But that didn't happen, right, Dr. Rodden? This is what happened, what's reflected in Exhibit 12, correct? A. That's correct. Q. And in the last five years, using a decision	3 4 5 6 7 8 9 10 11 12 13 14 15 16	A. Correct. Q. So the success rate for minority-preferred candidates, using this decision rule of top-ranked candidates among minority voters, is lower in the last 10 years as compared to the time frame as a whole, correct, Dr. Rodden? A. Correct. Q. And if we look at just the last five years and just look at top-ranked members or the top-ranked candidates among which you endorse as a decision rule for assessing who is a preferred candidate, the success rate is two out of five, correct? A. Correct. Q. And that is a lower success rate for
4 5 6 7 8 9 10 11 12 13 14 15 16	compared to the entire time period, the rate of minority-preferred candidates' success is smaller in the last 10 years as compared to the entire time frame 2000 to 2015? A. But as I've testified repeatedly, that is based on some elections that were won by exceedingly small number of votes, and a very small number of votes would change those results substantially. Q. But that didn't happen, right, Dr. Rodden? This is what happened, what's reflected in Exhibit 12, correct? A. That's correct. Q. And in the last five years, using a decision rule that you endorse as a political scientist in your	3 4 5 6 7 8 9 10 11 12 13 14 15 16	A. Correct. Q. So the success rate for minority-preferred candidates, using this decision rule of top-ranked candidates among minority voters, is lower in the last 10 years as compared to the time frame as a whole, correct, Dr. Rodden? A. Correct. Q. And if we look at just the last five years and just look at top-ranked members or the top-ranked candidates among which you endorse as a decision rule for assessing who is a preferred candidate, the success rate is two out of five, correct? A. Correct. Q. And that is a lower success rate for minority-preferred candidates when we look at just the
4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	compared to the entire time period, the rate of minority-preferred candidates' success is smaller in the last 10 years as compared to the entire time frame 2000 to 2015? A. But as I've testified repeatedly, that is based on some elections that were won by exceedingly small number of votes, and a very small number of votes would change those results substantially. Q. But that didn't happen, right, Dr. Rodden? This is what happened, what's reflected in Exhibit 12, correct? A. That's correct. Q. And in the last five years, using a decision rule that you endorse as a political scientist in your position, using point estimates in determining	3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	A. Correct. Q. So the success rate for minority-preferred candidates, using this decision rule of top-ranked candidates among minority voters, is lower in the last 10 years as compared to the time frame as a whole, correct, Dr. Rodden? A. Correct. Q. And if we look at just the last five years and just look at top-ranked members or the top-ranked candidates among which you endorse as a decision rule for assessing who is a preferred candidate, the success rate is two out of five, correct? A. Correct. Q. And that is a lower success rate for minority-preferred candidates when we look at just the last five years as compared to the time frame as a whole,
4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	compared to the entire time period, the rate of minority-preferred candidates' success is smaller in the last 10 years as compared to the entire time frame 2000 to 2015? A. But as I've testified repeatedly, that is based on some elections that were won by exceedingly small number of votes, and a very small number of votes would change those results substantially. Q. But that didn't happen, right, Dr. Rodden? This is what happened, what's reflected in Exhibit 12, correct? A. That's correct. Q. And in the last five years, using a decision rule that you endorse as a political scientist in your position, using point estimates in determining minority-preferred candidates, four out of 12	3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	A. Correct. Q. So the success rate for minority-preferred candidates, using this decision rule of top-ranked candidates among minority voters, is lower in the last 10 years as compared to the time frame as a whole, correct, Dr. Rodden? A. Correct. Q. And if we look at just the last five years and just look at top-ranked members or the top-ranked candidates among which you endorse as a decision rule for assessing who is a preferred candidate, the success rate is two out of five, correct? A. Correct. Q. And that is a lower success rate for minority-preferred candidates when we look at just the last five years as compared to the time frame as a whole, again using your definition of minority-preferred as the
4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	compared to the entire time period, the rate of minority-preferred candidates' success is smaller in the last 10 years as compared to the entire time frame 2000 to 2015? A. But as I've testified repeatedly, that is based on some elections that were won by exceedingly small number of votes, and a very small number of votes would change those results substantially. Q. But that didn't happen, right, Dr. Rodden? This is what happened, what's reflected in Exhibit 12, correct? A. That's correct. Q. And in the last five years, using a decision rule that you endorse as a political scientist in your position, using point estimates in determining minority-preferred candidates, four out of 12 minority-preferred candidates were successful during the	3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	A. Correct. Q. So the success rate for minority-preferred candidates, using this decision rule of top-ranked candidates among minority voters, is lower in the last 10 years as compared to the time frame as a whole, correct, Dr. Rodden? A. Correct. Q. And if we look at just the last five years and just look at top-ranked members or the top-ranked candidates among which you endorse as a decision rule for assessing who is a preferred candidate, the success rate is two out of five, correct? A. Correct. Q. And that is a lower success rate for minority-preferred candidates when we look at just the last five years as compared to the time frame as a whole, again using your definition of minority-preferred as the highest-ranked candidate amongst minority voters, correct?
4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	compared to the entire time period, the rate of minority-preferred candidates' success is smaller in the last 10 years as compared to the entire time frame 2000 to 2015? A. But as I've testified repeatedly, that is based on some elections that were won by exceedingly small number of votes, and a very small number of votes would change those results substantially. Q. But that didn't happen, right, Dr. Rodden? This is what happened, what's reflected in Exhibit 12, correct? A. That's correct. Q. And in the last five years, using a decision rule that you endorse as a political scientist in your position, using point estimates in determining minority-preferred candidates, four out of 12 minority-preferred candidates were successful during the last five years, correct?	3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	A. Correct. Q. So the success rate for minority-preferred candidates, using this decision rule of top-ranked candidates among minority voters, is lower in the last 10 years as compared to the time frame as a whole, correct, Dr. Rodden? A. Correct. Q. And if we look at just the last five years and just look at top-ranked members or the top-ranked candidates among which you endorse as a decision rule for assessing who is a preferred candidate, the success rate is two out of five, correct? A. Correct. Q. And that is a lower success rate for minority-preferred candidates when we look at just the last five years as compared to the time frame as a whole, again using your definition of minority-preferred as the highest-ranked candidate amongst minority voters, correct? A. Correct, but the impression of a downward
4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24	compared to the entire time period, the rate of minority-preferred candidates' success is smaller in the last 10 years as compared to the entire time frame 2000 to 2015? A. But as I've testified repeatedly, that is based on some elections that were won by exceedingly small number of votes, and a very small number of votes would change those results substantially. Q. But that didn't happen, right, Dr. Rodden? This is what happened, what's reflected in Exhibit 12, correct? A. That's correct. Q. And in the last five years, using a decision rule that you endorse as a political scientist in your position, using point estimates in determining minority-preferred candidates, four out of 12 minority-preferred candidates were successful during the last five years, correct? A. Correct.	3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	A. Correct. Q. So the success rate for minority-preferred candidates, using this decision rule of top-ranked candidates among minority voters, is lower in the last 10 years as compared to the time frame as a whole, correct, Dr. Rodden? A. Correct. Q. And if we look at just the last five years and just look at top-ranked members or the top-ranked candidates among which you endorse as a decision rule for assessing who is a preferred candidate, the success rate is two out of five, correct? A. Correct. Q. And that is a lower success rate for minority-preferred candidates when we look at just the last five years as compared to the time frame as a whole, again using your definition of minority-preferred as the highest-ranked candidate amongst minority voters, correct? A. Correct, but the impression of a downward trend is very much, as I have said many times, is
4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	compared to the entire time period, the rate of minority-preferred candidates' success is smaller in the last 10 years as compared to the entire time frame 2000 to 2015? A. But as I've testified repeatedly, that is based on some elections that were won by exceedingly small number of votes, and a very small number of votes would change those results substantially. Q. But that didn't happen, right, Dr. Rodden? This is what happened, what's reflected in Exhibit 12, correct? A. That's correct. Q. And in the last five years, using a decision rule that you endorse as a political scientist in your position, using point estimates in determining minority-preferred candidates, four out of 12 minority-preferred candidates were successful during the last five years, correct? A. Correct. Q. And that's a lower rate of success for	3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	A. Correct. Q. So the success rate for minority-preferred candidates, using this decision rule of top-ranked candidates among minority voters, is lower in the last 10 years as compared to the time frame as a whole, correct, Dr. Rodden? A. Correct. Q. And if we look at just the last five years and just look at top-ranked members or the top-ranked candidates among which you endorse as a decision rule for assessing who is a preferred candidate, the success rate is two out of five, correct? A. Correct. Q. And that is a lower success rate for minority-preferred candidates when we look at just the last five years as compared to the time frame as a whole, again using your definition of minority-preferred as the highest-ranked candidate amongst minority voters, correct? A. Correct, but the impression of a downward trend is very much, as I have said many times, is something that depends on a very small margin. Again,

	Page 361		Page 363
1	downward trend is one that I would disagree with. But I	1	A. Miscalculation of what kind?
2	agree that when you cut the data in exactly the way that	2	Q. Your calculation of the voting age population
3	you have proposed, one can come away from this table with	3	that is African-American would be incorrect, right, Dr.
4	the impression of a downward trend in the success of	4	Rodden?
5	African-American candidates, but of course we know that	5	A. Are you asking me about the denominator of
6	African-American candidates have been more successful in	6	Q. Yeah, that changes the denominator, wouldn't
7	recent years than in the past, because we know that the	7	it, it terms of total voting age population in
8	African-American voting age population has increased.	8	Ferguson-Florissant school district if there were
9	Q. Now, if you just compare the white-preferred	9	individuals who are Asian Alone or American Indian alone?
10	candidate success rate to the African-American preferred	10	A. Potentially slight increase. It would
11	candidate success rate, just using this decision rule to	11	potentially make a small difference in the number we
12	determine who's a preferred candidate, that is the	12	calculated earlier, but this is the number that the ACS
13	top-ranked candidate among each group, the white-preferred	13	provides for the population of the school district that is
14	candidate success rate exceeds the black-preferred	14	above the age of 18 in my download of the data.
15	candidate success rate regardless of whether you use the	15	MR. HO: Okay. I don't think I have any
16	entire time period, the last 10 years or the last five	16	further questions. Just one second. I think we are
17	years, correct, Dr. Rodden?	17	finished.
18	A. That's correct.	18	MS. ORMSBY: Okay. Thank you. I don't have
19	Q. And in fact, the top-ranked white-preferred	19	anything else. We are not waiving signature and I would
20	candidate never lost?	20	like an E-tran.
21	A. Using this approach, that's correct.	21	
22	Q. An approach that you use and endorse as a	22	(The deposition concluded at approximately 7:57 P.M.)
23	plausible decision rule for assessing who is a preferred	23	(,,
24	candidate, the whites and minorities, correct?	24	
25	A. That's correct.	25	
	Page 362		Page 364
1	Q. One last question, Dr. Rodden. In the ACS	1	CERTIFICATE OF REPORTER
2	data that you report in Exhibit 9, right, you count some	2	
3	individuals as in terms of calculating the voting age	3	I, BETH O. ZINK, a Registered Professional
4	of people, white alone, you count some individuals as	4	Reporter, Missouri Certified Court Reporter, Illinois
5	black alone and then you have a mixed race group, correct,		
		5	Certified Shorthand Reporter and Notary Public within and
6	Dr. Rodden?	5 6	Certified Shorthand Reporter and Notary Public within and for the State of Illinois, do hereby certify that the
6 7	Dr. Rodden? A. Yes.		·
		6	for the State of Illinois, do hereby certify that the
7	A. Yes.	6	for the State of Illinois, do hereby certify that the witness whose testimony appears in the foregoing
7 8	A. Yes.Q. You don't report anyone as Asian or American	6 7 8	for the State of Illinois, do hereby certify that the witness whose testimony appears in the foregoing deposition was duly sworn by me; that the testimony of
7 8 9	A. Yes. Q. You don't report anyone as Asian or American Indian alone in 2012 according to the ACS, correct?	6 7 8 9	for the State of Illinois, do hereby certify that the witness whose testimony appears in the foregoing deposition was duly sworn by me; that the testimony of said witness was taken by me to the best of my ability and
7 8 9 10	 A. Yes. Q. You don't report anyone as Asian or American Indian alone in 2012 according to the ACS, correct? A. Because the ACS data are not there. 	6 7 8 9 10	for the State of Illinois, do hereby certify that the witness whose testimony appears in the foregoing deposition was duly sworn by me; that the testimony of said witness was taken by me to the best of my ability and thereafter reduced to typewriting under my direction; that
7 8 9 10 11	 A. Yes. Q. You don't report anyone as Asian or American Indian alone in 2012 according to the ACS, correct? A. Because the ACS data are not there. Q. Correct. If you were to learn, in fact, there 	6 7 8 9 10 11	for the State of Illinois, do hereby certify that the witness whose testimony appears in the foregoing deposition was duly sworn by me; that the testimony of said witness was taken by me to the best of my ability and thereafter reduced to typewriting under my direction; that I am neither counsel for, related to, Knorr employed by
7 8 9 10 11 12	 A. Yes. Q. You don't report anyone as Asian or American Indian alone in 2012 according to the ACS, correct? A. Because the ACS data are not there. Q. Correct. If you were to learn, in fact, there is ACS data indicating there are individuals in the 	6 7 8 9 10 11 12	for the State of Illinois, do hereby certify that the witness whose testimony appears in the foregoing deposition was duly sworn by me; that the testimony of said witness was taken by me to the best of my ability and thereafter reduced to typewriting under my direction; that I am neither counsel for, related to, Knorr employed by any of the parties to the action in which this deposition
7 8 9 10 11 12 13	 A. Yes. Q. You don't report anyone as Asian or American Indian alone in 2012 according to the ACS, correct? A. Because the ACS data are not there. Q. Correct. If you were to learn, in fact, there is ACS data indicating there are individuals in the Ferguson-Florissant school district who are Asian alone or 	6 7 8 9 10 11 12 13	for the State of Illinois, do hereby certify that the witness whose testimony appears in the foregoing deposition was duly sworn by me; that the testimony of said witness was taken by me to the best of my ability and thereafter reduced to typewriting under my direction; that I am neither counsel for, related to, Knorr employed by any of the parties to the action in which this deposition was taken, and further, that I am not a relative or
7 8 9 10 11 12 13 14	 A. Yes. Q. You don't report anyone as Asian or American Indian alone in 2012 according to the ACS, correct? A. Because the ACS data are not there. Q. Correct. If you were to learn, in fact, there is ACS data indicating there are individuals in the Ferguson-Florissant school district who are Asian alone or American Indian alone, that would mean there is some 	6 7 8 9 10 11 12 13	for the State of Illinois, do hereby certify that the witness whose testimony appears in the foregoing deposition was duly sworn by me; that the testimony of said witness was taken by me to the best of my ability and thereafter reduced to typewriting under my direction; that I am neither counsel for, related to, Knorr employed by any of the parties to the action in which this deposition was taken, and further, that I am not a relative or employee of any attorney or counsel employed by the
7 8 9 10 11 12 13 14 15	 A. Yes. Q. You don't report anyone as Asian or American Indian alone in 2012 according to the ACS, correct? A. Because the ACS data are not there. Q. Correct. If you were to learn, in fact, there is ACS data indicating there are individuals in the Ferguson-Florissant school district who are Asian alone or American Indian alone, that would mean there is some miscalculations in this exhibit, correct? 	6 7 8 9 10 11 12 13 14	for the State of Illinois, do hereby certify that the witness whose testimony appears in the foregoing deposition was duly sworn by me; that the testimony of said witness was taken by me to the best of my ability and thereafter reduced to typewriting under my direction; that I am neither counsel for, related to, Knorr employed by any of the parties to the action in which this deposition was taken, and further, that I am not a relative or employee of any attorney or counsel employed by the parties thereto, Knorr financially or otherwise interested
7 8 9 10 11 12 13 14 15	A. Yes. Q. You don't report anyone as Asian or American Indian alone in 2012 according to the ACS, correct? A. Because the ACS data are not there. Q. Correct. If you were to learn, in fact, there is ACS data indicating there are individuals in the Ferguson-Florissant school district who are Asian alone or American Indian alone, that would mean there is some miscalculations in this exhibit, correct? A. It means this is a group that was not small	6 7 8 9 10 11 12 13 14 15	for the State of Illinois, do hereby certify that the witness whose testimony appears in the foregoing deposition was duly sworn by me; that the testimony of said witness was taken by me to the best of my ability and thereafter reduced to typewriting under my direction; that I am neither counsel for, related to, Knorr employed by any of the parties to the action in which this deposition was taken, and further, that I am not a relative or employee of any attorney or counsel employed by the parties thereto, Knorr financially or otherwise interested
7 8 9 10 11 12 13 14 15 16	A. Yes. Q. You don't report anyone as Asian or American Indian alone in 2012 according to the ACS, correct? A. Because the ACS data are not there. Q. Correct. If you were to learn, in fact, there is ACS data indicating there are individuals in the Ferguson-Florissant school district who are Asian alone or American Indian alone, that would mean there is some miscalculations in this exhibit, correct? A. It means this is a group that was not small enough for them to provide breakdown in the ACS. But	6 7 8 9 10 11 12 13 14 15 16	for the State of Illinois, do hereby certify that the witness whose testimony appears in the foregoing deposition was duly sworn by me; that the testimony of said witness was taken by me to the best of my ability and thereafter reduced to typewriting under my direction; that I am neither counsel for, related to, Knorr employed by any of the parties to the action in which this deposition was taken, and further, that I am not a relative or employee of any attorney or counsel employed by the parties thereto, Knorr financially or otherwise interested
7 8 9 10 11 12 13 14 15 16 17	A. Yes. Q. You don't report anyone as Asian or American Indian alone in 2012 according to the ACS, correct? A. Because the ACS data are not there. Q. Correct. If you were to learn, in fact, there is ACS data indicating there are individuals in the Ferguson-Florissant school district who are Asian alone or American Indian alone, that would mean there is some miscalculations in this exhibit, correct? A. It means this is a group that was not small enough for them to provide breakdown in the ACS. But there were breakdowns provided in the in the overall	6 7 8 9 10 11 12 13 14 15 16 17	for the State of Illinois, do hereby certify that the witness whose testimony appears in the foregoing deposition was duly sworn by me; that the testimony of said witness was taken by me to the best of my ability and thereafter reduced to typewriting under my direction; that I am neither counsel for, related to, Knorr employed by any of the parties to the action in which this deposition was taken, and further, that I am not a relative or employee of any attorney or counsel employed by the parties thereto, Knorr financially or otherwise interested
7 8 9 10 11 12 13 14 15 16 17 18	A. Yes. Q. You don't report anyone as Asian or American Indian alone in 2012 according to the ACS, correct? A. Because the ACS data are not there. Q. Correct. If you were to learn, in fact, there is ACS data indicating there are individuals in the Ferguson-Florissant school district who are Asian alone or American Indian alone, that would mean there is some miscalculations in this exhibit, correct? A. It means this is a group that was not small enough for them to provide breakdown in the ACS. But there were breakdowns provided in the in the overall population, the breakdowns are missing in the age-specific	6 7 8 9 10 11 12 13 14 15 16 17 18	for the State of Illinois, do hereby certify that the witness whose testimony appears in the foregoing deposition was duly sworn by me; that the testimony of said witness was taken by me to the best of my ability and thereafter reduced to typewriting under my direction; that I am neither counsel for, related to, Knorr employed by any of the parties to the action in which this deposition was taken, and further, that I am not a relative or employee of any attorney or counsel employed by the parties thereto, Knorr financially or otherwise interested in the outcome of the action.
7 8 9 10 11 12 13 14 15 16 17 18 19 20	A. Yes. Q. You don't report anyone as Asian or American Indian alone in 2012 according to the ACS, correct? A. Because the ACS data are not there. Q. Correct. If you were to learn, in fact, there is ACS data indicating there are individuals in the Ferguson-Florissant school district who are Asian alone or American Indian alone, that would mean there is some miscalculations in this exhibit, correct? A. It means this is a group that was not small enough for them to provide breakdown in the ACS. But there were breakdowns provided in the in the overall population, the breakdowns are missing in the age-specific data.	6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	for the State of Illinois, do hereby certify that the witness whose testimony appears in the foregoing deposition was duly sworn by me; that the testimony of said witness was taken by me to the best of my ability and thereafter reduced to typewriting under my direction; that I am neither counsel for, related to, Knorr employed by any of the parties to the action in which this deposition was taken, and further, that I am not a relative or employee of any attorney or counsel employed by the parties thereto, Knorr financially or otherwise interested in the outcome of the action. Notary Public within and for the
7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	A. Yes. Q. You don't report anyone as Asian or American Indian alone in 2012 according to the ACS, correct? A. Because the ACS data are not there. Q. Correct. If you were to learn, in fact, there is ACS data indicating there are individuals in the Ferguson-Florissant school district who are Asian alone or American Indian alone, that would mean there is some miscalculations in this exhibit, correct? A. It means this is a group that was not small enough for them to provide breakdown in the ACS. But there were breakdowns provided in the in the overall population, the breakdowns are missing in the age-specific data. Q. So my question was if you were to learn that	6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	for the State of Illinois, do hereby certify that the witness whose testimony appears in the foregoing deposition was duly sworn by me; that the testimony of said witness was taken by me to the best of my ability and thereafter reduced to typewriting under my direction; that I am neither counsel for, related to, Knorr employed by any of the parties to the action in which this deposition was taken, and further, that I am not a relative or employee of any attorney or counsel employed by the parties thereto, Knorr financially or otherwise interested in the outcome of the action. Notary Public within and for the State of Illinois, ILCSR#084-004477
7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	A. Yes. Q. You don't report anyone as Asian or American Indian alone in 2012 according to the ACS, correct? A. Because the ACS data are not there. Q. Correct. If you were to learn, in fact, there is ACS data indicating there are individuals in the Ferguson-Florissant school district who are Asian alone or American Indian alone, that would mean there is some miscalculations in this exhibit, correct? A. It means this is a group that was not small enough for them to provide breakdown in the ACS. But there were breakdowns provided in the in the overall population, the breakdowns are missing in the age-specific data. Q. So my question was if you were to learn that the ACS, in fact, recorded individuals of voting age	6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	for the State of Illinois, do hereby certify that the witness whose testimony appears in the foregoing deposition was duly sworn by me; that the testimony of said witness was taken by me to the best of my ability and thereafter reduced to typewriting under my direction; that I am neither counsel for, related to, Knorr employed by any of the parties to the action in which this deposition was taken, and further, that I am not a relative or employee of any attorney or counsel employed by the parties thereto, Knorr financially or otherwise interested in the outcome of the action. Notary Public within and for the State of Illinois, ILCSR#084-004477

	Page 365			Page 367
1	Midwest Litigation Services	1	WITNESS ERRATA SHEET	
2	St. Louis, Missouri, 63101 Phone (314)644-2191 * Fax (314)644-1334	2 3 4	Witness Name: JONATHAN RODDEN, Ph.D. Case Name: Missouri NAACP, et al. vs. Ferguson-Florissant School District, et al. Date Taken: August 20, 2015	
4	August 24, 2015	5	Dago # Lino #	
5 6 7 8	Crotzer & Ormsby 130 South Bemiston Avenue, Suite 602 St. Louis, Missouri 63105 Attn: Ms. Cindy Ormsby	6 7 8	rage # Line # Should Read: Reason for Change: Page # Line # Should Read: Reason for Change:	
9 10	In Re: Missouri NAACP, et al. vs. Ferguson-Florissant School District, et al.	9 10	Page #Line # Should Read:	
11	Dear Ms. Ormsby:	11	Page # Line #	
12	Please find enclosed your copy of the deposition of Jonathan Rodden, Ph.D., taken on August 20, 2015 in the	12 13	Should Read: Reason for Change:	
13	above-referenced matter. Also enclosed is the original signature page and errata sheet.	14	Page #Line # Should Read: Reason for Change:	
14 15	Please have the witness read your copy of the transcript, indicate any changes and/or corrections desired on the errata sheet, and sign the signature page before a notary	15 16	Page #Line # Should Read:	
16	public.	17	Reason for Change:	
17	Please return the errata sheet and notarized signature page to Mr. Dale Ho for filing prior to date of trial.	18	Page #Line # Should Read: Reason for Change:	
18 19	Thank you for your attention to this matter. Sincerely,	19 20	Page #Line # Should Read:	
20 21	Beth O. Zink, RPR MO-CCR#799, IL-CSR084.004477	21	Reason for Change:	
22	Encl: CC: Mr. Dale Ho	22	Should Read: Reason for Change:	
23 24		24	Page # Line # Should Read: Reason for Change:	
25		25	Witness Signature:	
	Page 366			
1	STATE OF)			
2	COUNTY OF)			
4 5	I, JONATHAN RODDEN, Ph.D., do hereby certify: That I have read the foregoing deposition;			
6	That I have made such changes in form and/or			
7 8	substance to the within deposition as might be necessary to render the same true and correct;			
9	That having made such changes thereon, I hereby			
10	subscribe my name to the deposition.			
11	I declare under penalty of perjury that the			
12 13	foregoing is true and correct.			
14				
	JONATHAN RODDEN, Ph.D.			
15 16	Executed thisday of, 2015,			
17	at			
18				
19	My Commission Expires:			
20	Notary Public:			I
21 22	Signature page to Crotzer & Ormsby, 8/25/2015			I
23	BOZ/Jonathan Rodden, Ph.D., 8/20/2015			I
24	Missouri NAACP, et al. vs. Ferguson-Florissant School			I
25	District, et al.			

	•	i	ı	308
A	51:13 52:22	19:1,8,14,19,21	adopting 134:8	232:21 233:19
abandon 224:12	55:24 56:1 82:7	20:9,14,19	191:5 208:20	235:13 236:16
225:4	134:24 217:22	21:14 22:1,9,23	214:22	236:25 237:4
abandoned 224:6	264:19,22	23:5,14 24:12	advancement 1:4	240:17 242:12
abide 34:3	271:24 272:23	24:21 32:10,21	1:23	243:2,8,14,23
abilities 51:15	276:19	34:4 178:2,8	advocacy 329:14	244:22 247:13
ability 120:23	accurately 40:4	179:24 180:1	advocates 296:5	250:3,8,12,13
364:9	52:9 78:2 234:2	222:10,14	affair 236:12,15	250:16,18,20
able 23:22 29:12	236:20 252:21	225:10	332:14	250:24,25
37:16 38:10	275:22 324:24	action 364:12,16	affairs 239:15	251:2,4,7,8,10
120:19 127:5	326:16 333:9	actively 12:11	affect 32:4,4 33:5	251:13,15,17
172:15 247:20	357:7	activities 318:22	33:25 120:23	251:20,25
311:23 320:10	achieve 33:17	acts 19:19,20	323:13	252:13 266:25
abortion 11:11	57:4 225:22	actual 57:1,2	affiliation 288:22	267:7,16,24
abovereferenced	achieved 48:25	59:20,21 76:17	289:3 290:19	268:10 269:4
365:12	84:25	77:11 336:7,8	290:24 291:15	269:10,13,21
absence 288:15	achieving 246:14	346:13,23	affiliations	270:2,4,11,13
absolute 256:18	aclu 4:7,7,19	adam 317:8	291:17	270:18 272:2
absolutely 90:9	acluem 4:11	318:3 329:15	afraid 277:17	273:1,7,8,17,18
96:12 283:2	acs 16:4 57:12	add 25:12 56:8	african 353:13	273:23 274:8
328:7	58:5,8,13,23	71:2 110:11	africanamerican	276:12 278:2
abstract 2:11	59:3,7,12 60:16	246:18 330:1	2:20 39:10,14	284:20 285:5
14:13	60:16,20,21,22	345:11 346:8	40:10,11 44:1,9	285:13 292:3,8
academic 351:17	60:24 61:11,12	346:11	44:13 45:3	292:12,20
accept 82:8	61:15,20,25	adding 346:14	60:13 61:2,16	293:15,23
179:11 259:25	69:24 102:6,12	addition 7:22,23	62:20 75:8 85:9	294:13 298:17
260:10	102:13 103:9	329:3	85:20 86:10	304:1 305:20
acceptable 94:21	103:18,20,24	additional	90:3 98:20,21	306:2,10,16
179:6 192:24	104:3,9 105:6,8	111:18 177:17	111:21,23,25	307:3 310:2,7
286:9	105:14,25	224:14 297:7	112:10 113:10	310:20,25
accepted 9:9	106:12,21	address 14:7	113:11 115:1	311:6,15,24
77:1 81:7	107:21 111:2,3	30:8	119:13,14	312:3,7,15,16
157:23	111:6 112:18	addressed	120:8,23	313:10,19
access 127:5	115:22 116:4	241:20	121:17,19,19	315:9,10,12,25
accessed 241:5	116:25 117:10	addresses 18:1	121:22,24	316:5,19
accident 45:22	301:22 302:1,7	adds 310:15	122:1,5,7,9,10	334:21,24
account 58:5	302:9 304:13	administered	122:19 123:16	337:3,24 338:4
204:22 298:21	304:15 305:8	324:21	127:7 135:24	339:14 342:5,9
353:19	305:24 306:6	admissible 25:1	158:21 159:1	346:20 347:12
accounting	310:14 311:25	admit 313:2	160:9,11	350:1,5,15,16
239:18	316:7,12	admittedly 281:5	164:11 173:23	361:5,6,8,10
accounts 15:20	351:23 352:11	adopt 165:12	181:15 199:22	363:3
18:23 286:20	352:15 362:1,9	176:19 186:15	205:7 206:19	africanameric
accuracy 100:21	362:10,12,17	343:23	215:14 221:24	50:2 60:5 62:5
accurate 28:12	362:22 363:12	adopted 190:2	224:14 225:24	64:6 65:2,18
49:9 50:24 51:2	act 18:7,18,21	192:13,14	226:14 229:1	69:18,22 70:22
	•		•	•

				369
96.21.02.10	111.15.22	165.40.15	1.16	107-24 100-1
86:21 92:19	111:15,22	165:4,8,15	american 1:16	197:24 199:1
98:25 111:14	112:11,19	166:8,20,21	4:4,8 28:24	212:17 240:14
111:16,17	113:6,12,16	167:18,20,20	37:10 43:17,25	280:23 281:21
114:25 115:5,8	119:4,13,21	170:9 182:12	56:21 57:11	282:1,11,12,18
120:1,3,8,15	121:18 122:5,8	182:22 192:12	103:3 274:3	282:24 283:4
121:7,7,22	225:24 243:21	234:4 242:14	305:3 309:11	285:20 286:8,9
123:8 126:19	301:21 302:21	243:8,13 244:6	309:23 310:3,9	286:14 297:9
133:17 158:13	303:1,4,9,17	244:12 273:6	311:1 315:24	297:17 318:4
158:18 159:11	304:4,14 305:1	277:9 279:16	362:8,14,23	320:3 334:22
160:5 161:22	305:6,11,14,25	284:14 300:21	363:9	analytical 162:19
164:19 167:22	306:8,21,24,24	300:25 301:3,8	americans	analytically
210:14 221:19	306:25 309:7	316:6 361:2	353:14	164:20
221:20 222:5	309:21 310:1,8	agreed 5:1 164:7	amid 96:19	analyze 63:19
229:21,24	310:18,24	187:23 188:3,4	amount 30:4	78:15 118:14
242:15,19	311:13,21,22	229:9 338:21	101:11	178:3 225:9
243:1 269:18	312:2,4,6,15,17	agreeing 151:16	amounts 286:20	320:10
272:25 273:25	313:10,11	agreement	ample 307:5	analyzed 85:4
275:19 276:1	314:5 315:19	236:13 279:1	analyses 28:13	243:18 286:10
293:1,5 298:24	316:5,9,14,19	292:13,22	49:19 50:11	analyzing 51:12
298:25 299:5	347:3,4,13	ahead 166:1	51:12 55:9	52:1,1
299:11 300:7	352:12 353:14	170:17 184:13	analysis 14:1	andrew 5:21,22
306:12 315:15	361:8 362:3,22	222:8 224:22	21:16,21,21,23	angela 4:16
315:19 316:8	363:2,7,14	344:3	23:22 26:10,16	anger 91:5 92:11
316:14 339:9	agency 324:22	aid 52:19 133:12	26:25 27:3,4,4	94:2
342:23 343:17	agenda 237:13	airport 299:18	29:10 30:14,24	angered 94:9
347:5,6 359:20	292:23	299:25	36:4 37:24 49:4	236:15
africanameric	agendas 292:13	al 1:24,25 365:9	49:6,23 50:3,5	angle 156:20
314:25	agespecific	365:9 366:24	50:17,23 51:10	angry 93:25
agabel 4:18	362:19	366:25 367:3,4	51:20,25 52:4,8	annual 13:17
age 49:8 52:25	aggregate 31:14	algorithm 30:5	53:20 54:2,12	14:10
55:10,11,12,15	51:24 61:13	allblack 241:23	54:16,22 55:4	ansolabehere
55:16 56:2,2,14	123:6 125:6	allout 296:3	56:18 59:23	25:14
56:15 60:6 61:2	300:11 324:9	allow 12:20	67:17 70:24,25	answer 6:6,7,11
61:16,17 62:5,6	aggregation	123:6 279:13	71:5 73:11,13	7:2,8 15:17,25
62:10,19 63:5,9	117:4	303:24 320:11	74:9 75:16	23:10 32:15
63:16,23 65:14	ago 46:2 240:21	allowed 30:5	78:22,25 85:23	49:24 60:9 80:1
65:16,17 71:5	C	56:5 132:1	· ·	84:24 85:2
, , , , , , , , , , , , , , , , , , ,	agree 42:2,6,11		88:10 90:1,2,4	
85:25 86:20,21	42:14,19,23	291:3	90:7,25 92:2	107:4 120:18
100:18,23	43:2 45:15 52:3	allows 56:5 60:17	94:21 95:2	120:20,25
101:4,9,15,20	57:19 63:2,6	alphabetical	118:1 119:3	123:25 127:5
104:7,25 105:5	75:18 114:12	67:25	120:14 123:4	135:11 136:5
105:24 106:4,9	118:5 123:5,18	altered 149:10	123:10,12,14	178:11,14
106:16,19	124:4 129:23	169:20	123:18 124:23	185:3 210:17
107:2,23 108:7	152:14 163:10	alternative	125:5,10,13,17	211:19,21
109:21 110:9	163:18 164:15	134:11	127:2,6 153:10	223:16 240:25
110:23 111:1,5	164:16,24	america 15:11	155:1 192:17	271:21 279:13
L	1	1	1	1

				370
295:23 328:13	217:4	appropriately	arrive 316:13	191:19 193:12
answered 15:16	applying 135:9	167:7	arrived 7:20	211:15 222:17
33:3	218:20,23	approval 326:2	arriving 239:9	224:23 225:5
answering 70:19	220:4 245:1	327:10 328:21	art 3:9 97:2	233:11 240:22
71:3 124:8	246:3 356:15	329:2,6	article 3:8,10,12	284:23 291:2
350:12	apportions 58:22	approximately	13:15 17:18,23	324:1 363:5
anthony 4:10	appreciate 200:6	1:15 5:10	28:2,5,9 31:3	aspect 318:16
anticipate 163:18	200:16 266:7	363:22	31:15 32:13	325:13
apart 105:21	approach 133:11	april 53:11	45:6,19 89:23	aspects 43:12,24
111:13	133:20,21	240:11	90:10 238:11	179:25 180:6,7
· -	134:4,9,10,11	arbitrary 180:13		assemble 51:15
apartment 299:23	134:4,9,10,11	•	240:19,21,23 241:11	
		area 9:17,18	*	assembled 51:8
apologies 174:5	136:2 150:20	10:13 13:13	articles 9:1 43:9	117:6
apologize 79:18	158:3 164:16	14:19 15:15,21	43:10 179:18	assembly 126:15
86:2 100:13	164:21,22	17:2,13 18:2	238:12 239:13	asserting 134:25
135:25 144:11	165:10,12,20	26:20 33:9	239:14,21	assertion 89:17
188:6	165:22 166:2	34:16 39:6,16	articulated 196:5	89:20 90:22
apologizing	175:17,18	39:20 41:17,21	219:22	328:2,14
332:11	176:19 178:24	41:25 42:4,9,12	ascended 252:24	assess 21:12
apology 333:19	179:3,4,5,6	42:16,21,25	253:3 294:13	27:11 29:19
apparently 170:9	182:25 183:14	43:3 44:11,20	ascertain 56:1	75:19 89:1
appear 34:5,8,22	189:12 203:15	46:7,11,15,17	255:4 295:15	182:13 256:13
99:15 157:1	212:4,7,22	46:19,22	303:24 311:23	258:12 278:15
appearance	213:23 220:12	114:19 180:8	ascertation 324:5	281:15,18
327:16	220:14,19,23	284:15 286:6	asian 314:11	350:13 354:25
appeared 17:21	245:19 246:9	296:23 297:15	362:8,13,23	356:7
appears 93:14	247:19 259:17	313:14	363:9	assessed 90:14
99:15 107:6	278:24 279:15	areas 10:16 11:4	asians 110:6	assessing 118:6
144:1,20 364:7	325:23 343:12	11:18,19,24	aside 156:19	118:12 175:24
appended 333:1	343:22,24	22:17,18 46:14	asked 19:10 23:8	177:13 183:15
apples 104:15	344:2,2,14	46:16 58:18	64:9 70:3 100:6	259:15 281:3
applicable 65:5,7	350:9 361:21	275:3 297:1,6	121:5 124:18	350:8 354:4
330:22	361:22	298:24 299:1,6	127:15 178:10	356:21 357:3
application	approached	299:7,13	186:15 211:18	359:15 360:13
77:17 282:4	278:8 326:9	arent 202:7	211:20 225:1	361:23
311:3	approaches	argues 28:24	237:25 238:24	assessment 18:25
applied 190:6	162:22 175:15	arises 37:22	239:16 240:24	21:16 47:23
208:25 209:7	183:12 256:7,9	arising 331:23	332:15 336:20	62:15,16
244:16 246:6	279:2	arose 28:15	342:3 346:7,8	117:23 211:13
247:14,21	approaching	arrangement	asking 6:7 32:12	221:3,4 322:25
292:4,8 312:3	325:16 326:6	21:13 22:22	49:23 57:25	323:21
applies 37:4	appropriate	23:13 24:11,20	65:8 87:20 99:2	assign 253:16
295:13	56:10,12 70:18	26:18 27:12	112:4 166:20	254:6 258:8
apply 80:19	164:21,22	351:2	170:3 173:22	assist 78:12
131:20 151:24	167:12 223:24	arrangements	184:16 185:2,4	associated 31:18
179:2 190:9	275:25	350:2,7	185:5 188:14	57:21 58:7
1,7.21,0.7	2,3.23	330.2,7	103.3 100.11	37.21 30.7
	l		l	l

				371
76:21 96:21	323:3	awanding 0.5	65:24 66:11	hagiaally 121.22
115:23 116:5	attempting 41:13	awarding 9:5 aware 171:18	132:8 225:13	basically 131:22 275:8
278:21 352:16	334:22	172:11 289:5	276:21 294:8	basing 60:4
association 1:3	attention 13:7	322:2	ballpark 132:5	basis 12:5 26:22
1:23	15:22 16:13	322.2	274:19	80:13 117:1
assume 29:3 63:8	96:20 97:22	B	barack 283:19	214:2 318:7
63:15 64:16	98:9 99:6 172:8	b 144:6,15,21	283:20 317:23	322:25
65:22 66:13	243:5 247:16	182:3,9 183:5,9	318:9	bathroom 127:22
110:16,19	365:18	218:18 219:6	barbara 221:18	bears 320:14
130:6,7 131:18	attitude 320:13	219:22 221:12	221:23 222:21	beautification
131:19 132:8	attn 365:8	322:10	223:1 251:4	327:17
181:8,12	attorney 331:4	bachelors 300:22	269:11	becoming 16:21
335:21 350:20	331:14 364:14	back 24:15 25:13	bare 177:2	39:14
350:25	attorneys 7:1,18	25:16 41:2	barely 177:3	began 16:15
assumed 311:15	7:24 8:5 19:11	53:21 83:5	198:7	beginning 135:9
335:21	172:1	84:18 91:2	base 313:19	151:21 173:20
assuming 130:18	attract 294:5,21	101:12 105:9	317:25	173:21 175:20
130:20,22	294:25	109:15 126:3	based 30:20	325:1
131:24 132:7	attracted 91:4	151:2,20	46:18 50:10,19	begins 151:25
202:13	attractive 114:19	173:19 214:5	56:10,12 57:12	242:10 276:16
assumption	179:4	222:12 223:11	57:16,19,20	behalf 5:13 100:4
70:20,23	attracts 295:2	238:25 239:23	58:9 59:19,23	behaved 158:18
181:10,14,22	attribute 87:5	242:6 244:3,24	87:21 92:12	behavior 9:21
311:10,12	attribute 67.5	249:14 252:15	95:8 98:6	11:12,14 12:21
313:14,15	august 1:14	252:17 265:16	102:13 104:9	26:15,25 27:6
316:4	365:4,12 367:4	270:19 272:3	105:25 109:23	71:25 99:14
assumptions	authored 17:11	276:3 297:25	112:9 113:20	117:24 164:20
71:16	authority 10:20	299:20 301:12	116:3,21 177:7	178:4 179:8
asterisks 198:9	authors 43:13	303:13 313:16	184:19 195:3	278:1 279:18
asymmetric	45:1	319:25 338:16	209:21 220:2	279:20 318:14
93:15	available 31:11	345:16 354:15	241:7 256:22	318:17
asymmetry	31:12,13 51:23	background	258:9,13,18,23	beings 300:2
28:25 65:6	52:4 55:21	240:3	259:2 277:24	324:19
atlarge 3:22	56:10,12 63:18	backwards 211:3	281:4 283:8	believe 14:9 17:3
342:1 348:25	103:21 105:9	211:10	300:11 302:1,4	22:10,11 23:2,4
351:1,5,10,11	105:11,15	bad 25:15 70:23	302:8 303:22	23:7,11,12,19
attached 3:24	110:6 112:24	76:19	304:15,22	24:7 26:4,4
attaining 300:22	117:3 134:19	bailey 1:5	305:3,7,19	32:17 33:2
attempt 49:6	151:3 311:25	ballot 11:9	309:14 316:1,2	34:14 36:14
50:11 59:1 62:3	avenue 4:15	221:20 224:14	316:2,16	40:9 43:24 46:4
88:6 179:18	365:6	273:24 289:14	317:20,25	47:11 49:3,12
258:12 311:7	averages 103:7	291:4,9 318:18	323:20 324:9	53:10 55:8
334:19 350:9	averted 223:23	318:23 319:2,4	334:21,21	81:20 82:13
350:13	224:3 225:16	319:5,13	342:9,10 358:9	86:25 95:11
attempted 27:11	avoid 273:4	ballots 53:4,11	baseline 29:15	96:9 97:1 99:9
49:25 322:24	323:2	53:15 54:13,22	basic 6:1	107:15,24
		55:5 59:18 62:1		,
	I	<u> </u>	<u> </u>	

				372
108:14 110:16	beth 1:17 4:22	76:2 77:25	192:3,7,11	310:18 314:12
110:22 118:9	5:3 364:3	79:23 80:3,11	192:3,7,11	346:12 347:13
118:15 124:24	365:20	80:14 81:1	195:1,21 195:9	348:24 356:10
125:23 126:19	better 60:14 61:4	82:11,18 83:19	190.9,13 197.2	362:5
		,	197:3,10,11,13	
127:4,6 133:10	78:18 180:10	84:6,11,15,19		blackpreferred
138:5,18	180:11 342:11	85:3,16 86:17	198:17,19	148:10,22
139:22 140:7	342:11	87:2 91:12,16	199:2,7 200:21	149:11,16,20
143:2 144:23	beyond 11:18	93:7,10,17	201:9,13	150:1,22
158:1,12 162:4	61:1 79:1	94:11 105:20	204:10,16,18	152:25 153:3,7
162:18 163:19	299:20 305:7	108:6,11	204:19,23	153:10,16
164:11,18	315:22	109:13,22	206:1,5,7,11,11	154:8 155:2,17
165:10 171:10	bias 2:13 27:25	110:12 111:7	210:21 211:3,4	155:20,25
171:11,21	28:11 29:21,23	114:19 119:4,6	211:10 212:2	156:14 159:4
172:23 174:4	30:2,9,18 31:18	119:21,23	214:11,15,16	162:5,9,11,13
179:5 180:8,12	31:21 57:22,23	122:22,25	215:11 216:14	167:7 168:3
180:14 187:16	57:24,25 58:2,4	124:9,15 126:2	216:16,18,19	175:13,24,25
199:19 211:6	58:4,6	128:8 132:25	216:22 217:19	186:22 193:9
211:14 212:13	big 12:10 19:5	133:8 135:5,15	217:24 218:2	195:6 199:16
213:5 215:13	90:6 92:3	135:17 136:9	219:5,10,14,17	199:18 201:2
222:25 225:2,9	105:19 118:22	137:3,11 138:3	221:6,11,14,17	203:12,16
225:15 234:6	bigger 120:13	138:20 139:17	222:22 223:1	205:2 207:2
237:14 240:19	bill 333:16	140:12 141:1	224:3,6 226:7	208:23 210:9
253:6,7 273:3	binary 170:2,7	141:18 142:10	227:17,18,21	211:1,8,12
275:15 286:5	234:8	143:1,8 144:13	227:24 228:4,8	212:11 214:23
305:12,16	biracial 280:18	144:14 145:12	228:11,17,21	214:25 217:8,9
307:11 323:4	281:1,16	146:6,14 147:4	230:3,24	217:12 219:22
324:9 338:10	bit 14:1 49:22	147:9 148:3,12	231:13,23	220:14,19
346:9,16 348:5	88:1,2 114:7	148:21 149:4	232:11,12,15	221:1,7 235:4,6
353:7	125:4 134:3	149:18,25	233:2,7 234:18	245:2,9 248:6
believed 36:25	163:9 190:4	153:2 155:21	234:24 240:9	248:20 249:15
44:19	200:25 230:15	157:6 158:9	241:17 245:15	249:20,22
bemiston 4:15	294:25 295:1	159:9,19,20,25	245:24 246:3	253:4,21
365:6	335:3	160:7,17 161:1	247:18 249:20	256:14 259:2
benefit 35:4,14	bivariate 50:14	161:19 164:24	249:22 256:19	260:19 354:5
35:22 36:2,16	52:7,9,20	165:1,18	258:24 260:9	354:13,17,20
37:15	black 3:22 40:2,8	166:14 173:14	263:7 265:25	355:4,6,10,12
benefits 36:9	41:24 42:3,7	173:16 174:7,8	266:9,14,17,22	355:17,18,20
91:7	48:8 49:7,14	174:11,16,23	267:5,13,21	355:22 356:1
benz 146:19	52:25 54:8	174:24 175:3,5	268:4,15,23	359:8 361:14
235:17	55:12,16 56:2	175:9,22 176:2	270:23 271:1	blacks 41:3
bernard 25:18	56:15 62:13,18	176:21 181:8	271:13,18	48:14,24 50:9
best 24:4 47:17	63:4,15,17	181:12,18,20	280:12,20	50:18 59:22
51:14,14 52:4	64:13,17,25	183:4,5 185:11	283:15 284:6,9	62:10 64:12,20
56:19 278:24	65:12 66:1,14	186:5,7,11,19	297:20 303:3,4	65:17 66:4 67:3
307:5 312:5	66:21 68:3,23	188:22,23	303:15 304:5	67:10,14 69:7
350:11 364:9	70:14 72:11,12	189:4,7,9 191:4	305:15 306:7	69:10,14 70:8
	, , 2.11,12		202.12 200.7	0,110,11,70.0
	l l			1

				373
70.10 72.16	275.20.276.2	250.25	65.24.66.10.17	120.10.21
70:10 73:16	275:20 276:2 276:23 277:12	250:25	65:24 66:10,17	129:19,21
79:5,21 87:12		broad 4:4 11:21	69:12 88:6	130:2,3,9,10,16
101:3,8,19	278:10,11	28:6 43:16 202:11	294:23 346:22	130:24 131:5,7
136:19 166:10	279:21 280:3		calculated 64:18	131:14,16,21
174:20 185:9	293:24 294:20	broadly 118:3	153:3 232:8	131:24 132:5,7
185:18 186:1	324:20 336:7,8	brown 96:21	274:14 363:12	133:25 134:2,5
189:21 190:18	body 11:7 40:6,9	97:24 99:6	calculating 55:7	134:18 135:13
195:20 198:20	292:16	114:18 145:20	55:15 65:23	144:24 147:8
201:5,19 298:4	bonica 317:8	224:15 226:24	70:11 275:1	153:16 155:2
298:8 300:17	318:3 329:15	227:11,14	362:3	156:1 157:7,11
300:21,25	book 9:2 13:25	343:1,7,9,14,16	calculation 59:15	157:17 158:2
301:4,9 303:9	14:3,4 29:11	345:1	59:19 212:25	159:5,8 160:7
blank 189:15,25	bother 331:20	build 41:6,7	213:20 363:2	162:1,6,9,11,13
bloc 3:15	bottom 83:16	117:9 351:3	calculations	162:14,20,25
block 55:21,22	225:21 239:24	bullock 4:16	90:17 104:7	163:4 164:8,15
56:7 59:13	bound 159:18,19	bumps 114:3	calculator	165:5,9,14
126:16 223:10	198:18 206:15	bureaus 56:21	110:25 149:19	166:6,9,19
224:19 278:2	207:19 214:16	67:24 68:6,7,22	california 289:18	167:13,14,21
299:16 300:13	boundaries	69:5	289:19 291:7	169:2 170:2,12
blocked 223:9	117:5	butler 138:19	call 9:19 10:25	170:14,14
blocklevel 12:15	bounds 157:6,10	139:2,18,21	11:8 14:24	171:22 173:14
blocks 28:18	227:19	188:22 189:7	24:24 57:12	174:6,6,22
31:12,13 33:16	boz 366:23	189:14,18,20	74:9 76:7	175:8,13,24,25
51:24 59:5	break 7:6,8	190:8,25 191:3	131:12 134:5	176:10,11,17
117:6,20 282:5	46:24 47:1,3,5	192:2,10,11,23	158:16 167:12	176:23 177:21
blog 2:13 17:20	81:18 83:4	192:25 193:14	183:5 277:2	177:25 178:18
34:19 37:8	127:22,23	193:21 194:24	called 13:18 15:9	178:22 180:12
39:18 40:23	128:2 252:17	194:24 195:1,9	125:22 324:20	180:16,24
41:13 46:3,20	259:6,8,9	196:17 197:4	346:3,4	181:10,14,16
240:13 296:12	307:15,18,21	197:18,19,20	calls 125:9,17	181:18,22,24
296:15,20	311:7 348:20	198:17 199:1,4	campaign 89:18	181:25 182:2,3
blogger 240:15	breakdown	199:19,22	171:4,12,17	182:9,14,18,20
blunt 60:8	110:5 311:11	250:8,13	172:16 236:17	183:3,4,7,8,9
board 1:9 3:13	315:10 362:17	266:22,25	237:1,6,10,15	183:15,25
35:11 36:19	breakdowns	267:2 338:3	238:20 239:11	184:1,3 185:8
40:2,17,20	306:22,24	butlers 189:24	241:10 242:4	186:1,5,7,11,18
47:24 48:9,15	311:8,14	190:21 193:15	317:21 318:6	186:19 187:1,4
48:25 49:15,20	362:18,19	196:17 197:9	318:21 321:25	188:4,5,8,13
50:10,12,19	breaks 7:5	buying 123:3,3	322:1,7 329:23	189:10,16
54:9 73:1,3,7	brevity 71:12	bvap 346:19,24	330:6,12	190:10,12,17
74:3,4,15 75:9	brief 334:9		campaigns	191:10,13,18
75:10,11,20,24	briefly 6:1 346:6	C	171:14	191:18,22,24
84:2 94:1	347:24 359:11	c 4:1	candidate 119:14	192:11 193:4
117:24 120:5	bright 45:19	cage 34:19	120:24 122:25	193:10,11
172:2 241:17	bring 308:23	calculate 53:3	123:16 126:2,6	194:3,7 195:15
241:24 273:20	brings 250:18,21	54:13 55:4	126:7 128:9,14	195:25 196:5,6
		59:16 62:1		
	1	I .	ı	

Case: 4:14-cv-02077-RWS Doc. #: 82-9 Filed: 09/30/15 Page: 100 of 155 PageID #: 1086

JONATHAN RODDEN, Ph.D. 8/20/2015

374

Fax: 314.644.1334

				3/4
196:8 197:13	280:20,21	139:6,17 140:1	209:21 210:3,9	271:1,14,18
198:17,20	282:6,6,12,20	140:10,11,16	210:21 213:7	272:3 273:1,2,8
199:7,16 201:2	282:21 283:10	140:25 141:10	213:10 214:7	273:18,19,23
201:19,22	283:15 284:6	141:18,24	214:10,23	273:10,17,23
202:7,23,23	284:11,11	142:9,15 143:1	215:1,5,6,11	277:20 278:22
203:13,16,25	285:5 287:1	143:6,10 144:4	216:2,11,22	280:13,13
204:3,8,9	289:4,7,9,15,23	144:13 145:3	217:8,12 218:9	281:11 283:11
206:10,21	289:24 290:3,6	145:11,18,24	218:12,24	284:9 285:13
207:15 208:21	290:7,7,8,13,14	146:5,12,17,22	220:18,25	288:22 289:8,9
208:21,23	290:14,19,24	147:3,8,12	221:5,23,24	289:11 290:17
209:2,8,16	291:15 295:10	148:2,4,5,11,11	222:22 224:11	290:18,21
210:10,13,17	295:18 319:7	148:13,17,20	224:16,24	291:16 292:3,8
211:1,4,8,18,20	319:12 337:24	148:22 149:2,3	225:2 227:4,8,9	292:12,17,20
212:2,5,6,9,11	338:4 342:22	149:8,12,17,20	229:21 230:21	294:13 317:18
212:21 213:11	343:11,17,25	149:24,25	230:23 231:13	317:22 318:2,8
213:16 214:17	344:5,5,12	150:1,6,7,11,16	231:17,21,22	318:21 319:2
215:14,20	354:5,6 355:1,6	150:17,23	232:2,4,7,9,11	319:14,20
216:6,16 217:9	355:17,22	150:17,25	232:12,21,22	320:6 334:21
218:18 219:5	356:8,10,11,21	153:4,7 154:8	232:23,24	334:24 337:3
219:22 220:1,9	357:3,6,7,13	154:15,19	233:6,16,19	339:4,7,14
220:15,20	359:7,8,16	155:17,20,21	234:25 235:4,7	342:5,9 344:23
221:1,7 224:8	360:13,20	156:3,4,7,14	235:12,20,25	344:24 345:5
224:14 227:20	361:10,11,12	158:6,22 159:7	236:1,5,16,25	345:12,24
227:23 228:20	361:13,14,15	161:2 163:5	237:5,11	346:2 348:25
229:9 232:16	361:20,24	164:19 166:4	238:19 239:10	350:1,5,11,15
233:3 243:22	candidateprefe	167:12,21,24	240:17 241:16	354:14,18,21
245:22,24	295:15	168:4,8,13,17	242:2 243:23	355:2,5,10,12
246:2,2,3,4,11	candidates 2:23	168:23 171:17	244:23 245:2	355:18,20
247:21 252:20	3:6,13,22 26:19	171:18 172:9	245:10,11,15	356:1,15
253:4,22	27:13 73:21	175:19,22	245:21 246:1,8	357:14,19,20
254:14 255:3,5	87:24 97:16	177:10,14	246:19 247:1,5	357:23 358:5
255:25 258:9	119:6,23 120:8	181:7 182:7.21	247:8,12,18	358:19,20,24
259:16,16,21	120:9,16	183:5 184:2,18	248:7,9,14,20	359:3,5,6,20
259:22 260:24	121:19,25	184:23 185:6,7	248:22 249:2	360:1,2,5,6,12
261:6,14,22	122:2,7,11,19	186:17,22	249:15,20,22	360:17 361:5,6
262:4,13,20	122:22 124:9	187:8,12,15,25	251:20,23	cant 6:12 20:18
263:5,13,20	124:15 125:7,8	191:4 192:3	252:12,24	71:15 158:4
264:2,10,18,23	132:18,18	193:1 194:13	254:15,16,24	161:14 163:13
265:8,12,13,15	133:7,13,18	194:18 195:5,6	255:11,16,22	163:22 169:16
265:19 266:1,2	134:6,7,17,23	195:20 199:2	256:3,14,22	176:1 274:21
266:14 268:22	135:2,4,10,14	199:12,18	257:5,15,22	313:2 324:11
269:9,17	135:16,21,22	200:1,17	258:23 259:2	324:11 345:21
270:18 273:6	135:23 136:7,9	201:17 202:9	260:8,9,19,20	capacity 17:8,8
273:14 274:8	136:11,12,18	204:23 205:2	260:22 264:20	capture 11:16,22
275:7,19 276:1	137:3,5,10	205:20 207:2	264:23 265:7	29:12
276:5,7,12,13	138:2,6,19	207:25 208:3	266:8 270:23	captured 99:14
,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	· , - ,			1
	I .			1

MIDWEST LITIGATION SERVICES Phone: 1.800.280.3376

				375
care 39:24	55:5 59:18,20	58:3,23 59:2,4	certify 364:6	charge 292:16
177:22	59:21 62:1	59:9,11 60:4,8	366:4	charges 236:13
case 7:25 17:14	122:14 130:1,5	60:18,22 61:4,6	certitude 157:20	348:1
18:17,24 19:3,4	130:17,24	61:10 67:22,24	192:24 194:14	charles 125:1
19:5 20:4,6,11	131:6,15 158:9	68:6,7,8,21	195:19 196:13	172:4
20:13,14,15,21	159:10 171:6	69:5 100:17,23	228:16	charlie 283:21
20:24 21:11	203:21 221:25	101:3,8 102:12	chabot 143:13,14	chart 3:21 46:4,5
24:9,11,18,21	222:1 225:13	102:16,17,20	143:15,15,22	46:9,13 75:1
26:9 31:11 32:8	225:23 226:3	103:2,4,13,16	146:18 235:16	76:2 81:10
32:12,16 38:1,2	226:13 319:2	105:1,22	264:1,5,7	107:25 108:6
40:5 44:6,8	319:13	116:18 117:8	challenger 294:5	109:21 136:15
45:13 47:12	casting 276:21	117:13,16	294:20,25	136:15 137:2
65:4 74:15	catchall 121:3	126:21 299:16	challengers	137:14 138:6
75:11 77:16	categories 11:21	306:19 309:14	152:16 242:12	138:11 152:3
79:6 87:13 92:5	69:24 126:22	316:1,7	294:22 295:2	152:22 169:4
92:8 95:1 98:8	315:4	censuses 12:16	chance 172:14	170:8,13
100:7,16	categorized	center 297:22	274:23	184:10,16,20
110:16 118:8	108:19	298:2,7,11	change 10:3	184:21 209:20
118:16,19	category 109:22	302:7	15:20 18:23	304:4 335:20
124:11 125:20	110:20 126:9	centers 44:5	32:15 39:13	336:21 345:4
130:7 133:19	126:20 170:7	central 10:21	47:5 60:7 114:1	354:12 362:24
160:22 172:3	303:12,18,25	282:2	114:11 344:7	charts 82:10
174:15 175:20	306:15 311:5,7	century 41:2	344:15,16,25	check 127:5,8
176:16,20	311:20	certain 1:20 19:6	345:4,7 346:6	147:15 161:7
178:23 182:11	causal 90:11,19	19:11,13 33:4	351:3 358:11	249:19
203:1,6 213:22	90:22 278:20	33:17 37:6	367:6,8,10,12	chen 27:23 49:25
222:4 272:15	279:10	60:17 109:10	367:14,16,18	307:12,25
274:5,22	cause 1:20 29:1,4	254:6 300:17	367:20,22,24	308:1,16
277:16 279:24	29:20 89:15	certainly 26:13	changed 39:6	316:18 334:12
281:5 283:2,3	90:8 95:4	33:18 74:22	114:15 258:4	334:13,15,15
286:13,22,24	caused 29:5,9	75:25 82:24	262:25	336:12,20
298:9 308:3	30:3 89:18	104:13 127:4	changes 327:9,10	349:3,4,7,9,13
312:12 314:24	90:20 97:6 98:1	166:2 239:17	363:6 365:14	349:18
315:6 328:17	279:4 322:12	243:10 266:6	366:6,9	chime 337:23
367:3	causes 30:9	286:15 288:13	changing 314:21	choice 3:6 52:1
cases 20:7 22:13	247:15,15	312:17 313:15	chapters 9:2	120:16,24
79:16 83:13,18	causing 97:18	certainty 76:16	characterization	161:23 162:19
85:8 126:24	caveat 183:21	76:21 78:7	44:3 49:9	164:12,21
133:19,22	cc 365:22	157:16 159:24	237:16 244:1	166:6,9 167:13
163:3 177:2,3,8	cell 316:12	159:24 169:17	256:10 275:5	167:14,21,22
177:15 178:20	census 2:19,19	186:12 191:1	360:25	169:24 170:6
179:8 180:5	16:3 27:2 28:18	192:2,8 198:10	characterize	175:24,25
281:8,9 286:7	31:7,11 33:16	353:4	134:7 223:24	186:17,18,19
337:18	44:16,17 55:18	certificate 364:1	234:15 340:9	188:22 189:10
cast 11:9 53:4,11	55:25 56:8,14	certified 1:19,19	characterized	192:11 193:23
53:15 54:13,22	56:21,24 57:1,9	364:4,5	48:5 234:16	203:20 209:2,8

MIDWEST LITIGATION SERVICES Phone: 1.800.280.3376

Case: 4:14-cv-02077-RWS Doc. #: 82-9 Filed: 09/30/15 Page: 102 of 155 PageID #: 1088

JONATHAN RODDEN, Ph.D. 8/20/2015

376

Fax: 314.644.1334

				3/0
209:16 210:14	citizens 241:15	284:1	close 62:24,24	82:11 317:21
211:18,20	332:11	cleaner 184:20	63:4 85:1 134:1	collectively
212:2,5,7,9	city 15:25 44:5	184:21	169:20,25	155:15
227:18 228:16	297:21 298:1,7	clear 6:8 17:11	210:23 216:24	collects 68:8
228:21 231:21	298:11	20:3 23:20,21	217:17 228:13	colleges 324:18
282:6 338:4	civ 1:7	34:19 49:22	247:19 272:1	color 74:24 77:23
343:25 344:5,5	civil 1:16 4:4,8	60:18 79:19	286:18 287:3,4	colored 1:4,23
344:23	330:22,23	80:21 86:6	295:22	colors 129:8
choices 104:16	331:1,11	101:2 103:12	closely 163:10	column 53:14
104:19 205:9	claim 19:2 20:12	104:3 105:19	closer 108:17	82:10,14
206:2 278:2	87:8 223:9	106:14 111:24	166:25 317:23	108:15 109:12
choose 60:19	claims 19:9	126:5 133:10	318:1	109:13,13,24
114:9 177:15	330:2 331:25	143:20 148:1	cluster 314:4	110:4,15 128:7
285:21	332:24	149:6 151:23	clustered 160:8	128:13 138:1
choosing 282:7	clarification	160:6 162:17	coauthored	167:23 188:18
chose 52:2	201:24	162:18 163:3	27:23 308:2	224:21 265:22
104:14 241:17	clarified 329:4	163:19 178:21	coauthors 330:17	302:20 303:3,3
285:16	clarify 54:18	179:17 180:21	code 249:24	303:14 310:12
chuck 122:4	78:10 104:17	180:24 181:1	coefficient 52:11	310:13 337:4,5
chunk 105:19	104:20 133:9	181:10,20,22	119:16	345:8,24,25
chunks 154:4	143:16 188:16	182:22 184:12	cohesion 3:16	346:2,3 352:3,5
cindy 4:16	197:23 257:3	192:18 193:15	cohesive 158:17	columns 82:2,17
144:18 188:15	257:18 301:14	198:13,16	161:23 164:12	82:21 109:11
200:6 259:5	335:13 349:6	199:21 209:13	164:25 166:9	110:11 157:5,9
365:8	clark 139:18,20	215:11 217:9	166:12 168:19	352:24
circumstance	140:3,5 143:2	227:18 252:23	168:21,22	com 4:17,18
172:19,21	195:21 197:14	255:18 256:12	169:24 170:6	combination
242:21	197:18,19,21	271:22 273:16	170:11,12	122:4 221:21
circumstances	198:19 199:6	281:20 284:4	176:21,22	combine 60:14
99:7 225:3	216:24 217:2	285:3 289:17	177:2,4 178:4	155:15
253:20,24	217:17,24	294:2 298:20	179:9 219:18	combined 26:25
254:2,7 258:14	218:3 250:13	300:11,12	cohesively	122:6 125:1
circumvent	251:2 331:3,5	302:10 315:17	158:18	come 25:13,16
276:24	331:15	323:6 326:8	cohesiveness	73:13 74:7
citation 296:11	clarks 198:21	327:12,21	160:5 162:2	163:13,17,22
296:16	217:18	329:5 332:17	170:2,7	163:22 170:4,5
cite 43:13 46:20	class 16:25 19:18	335:3 337:12	collaborations	178:18 222:12
238:18 241:8	19:19,22 21:24	354:2 356:5	325:21	222:16 223:11
cited 30:16 238:9	22:4,7,12 44:1	clearly 83:19	colleague 317:8	278:24 309:10
287:22 288:1	44:2,9,13,24	87:2 175:21	318:3	310:8,25
cites 288:20	classes 20:10	204:21 222:5	colleagues	325:15 326:1
cities 9:25 12:12	22:3	232:23 234:11	325:25	361:3
12:24 13:1,23	classify 234:8	291:16	collected 66:22	comes 54:15 60:8
15:23 16:7	classroom	clinton 283:19	106:21 107:5	68:18 102:7
17:15 37:11,25	292:18	cloak 32:9	112:15 314:20	103:1 216:24
43:25 46:6,11	clay 283:20	clock 285:10	collection 26:23	237:13 309:22

MIDWEST LITIGATION SERVICES Phone: 1.800.280.3376

Case: 4:14-cv-02077-RWS Doc. #: 82-9 Filed: 09/30/15 Page: 103 of 155 PageID #: 1089

JONATHAN RODDEN, Ph.D. 8/20/2015

				37
310:2 311:3,4	comparative	162:17	conditions 19:23	209:1,4 214:16
comfortable	47:25 48:5	compliance	60:19 72:3	227:20 229:22
22:15 40:10	50:18 67:13	23:24	225:10,14	244:8 256:22
comfortably	297:12 351:16	complicated 33:9	281:10,12	259:3 274:20
287:3	comparatively	complied 108:5	conduct 9:13	274:24 279:7
coming 240:5	88:7	137:15 138:12	51:25 78:14,25	320:1 344:22
279:1	compare 221:9	138:24 139:5	198:3 292:19	352:18 353:6
commenced 5:9	221:12 228:2	139:11 169:5	293:4,9 297:17	353:19
commencing	232:1 296:25	194:17 199:5	335:7	confident 127:3
1:15	337:4,7 342:14	205:1 218:22	conducted 26:10	confirm 141:6
	348:24 361:9			confused 299:19
commission		complies 21:13	85:23 282:19	
366:19	compared 91:17	22:22 23:5,14	288:5 291:20	confusion 110:1
commissioner	91:21 92:25	24:12,21	292:7 317:7	congress 28:11
321:6,12,24	94:11 98:12	component 37:23	conducting 27:3	58:22 295:2
324:14 328:8	204:6 301:10	components	319:11,18	connected
329:11,20	340:6,7 343:6	11:13	327:2 328:21	103:11
330:9,24 331:9	357:6 358:4,6	composition	confer 254:23	connecting
331:22 332:2	360:7,18	26:14 28:11	conference 1:3	105:13
332:13,15	compares 46:5	38:24 39:6,13	1:22	connection
348:4	296:21	39:19	confidence 58:6	105:20
commissioners	comparing 46:21	computers 59:6	58:10,18 76:11	consensus 163:1
1:10 53:14	72:7,11 189:14	327:14	76:15,18,20	163:23
328:4 330:3,5	189:18 193:14	concede 231:9	77:5,6,11,13,24	conservative
committees 9:5	351:11	concept 162:14	77:25 78:6,19	317:23 318:9
common 41:1	comparison	170:2 234:8	79:2,4,15,22	324:7
94:17 171:15	36:20 46:14	concern 315:5	80:4,8,16 81:2	conservativele.
communicate	127:7 167:10	concerned 57:23	81:5,9 82:18,22	323:12,23,25
20:12 299:2,8	203:5 245:25	concerning 67:22	115:22,25	consider 11:23
20.12 299.2,8 299:10	297:5 338:2	100:17 287:15	,	12:2 14:17
			116:4,7,13	
communication	342:3,4	concerns 286:15	135:20 156:23	15:14 22:7,17
172:4 331:17	comparisons	321:20	156:25 157:6	22:20 25:2
communications	56:6 232:20	conclude 81:2	157:10,15,18	26:17 27:7
243:11 332:22	300:1	220:19 341:24	160:8,16 161:2	166:5 233:25
communities	compensation	342:1	161:5,8,10,14	354:15
39:1 297:8,9	94:2	concluded 276:7	167:2 168:12	considerable
community	competitive	363:22	169:13,21	30:4
38:23 40:13	87:15	conclusion 86:23	175:2,4 176:8	consideration
56:21 57:11	complete 14:4	118:15 239:9	185:25 186:6	33:24 331:5
87:16 103:3	completely	247:22 273:3	189:24 190:13	considered 3:6
294:21 305:3	326:14	275:17 313:17	190:22 191:8	60:7 183:9,10
309:11,23	complex 43:22	316:13 320:11	196:3,17	209:2 238:7,22
310:3,9 311:1	133:12	328:14,17	197:21,25	239:4,9 241:8
315:24	complexes	344:10	198:2,8,19,21	281:10 294:11
· - ·	299:23	conclusions	199:12 200:23	332:18
compact 29:16	∠ 77. ∠.)			
compact 29:16				
compact 29:16 comparable 55:1 104:12	complexities 135:20 162:16	19:25 22:16 43:16 286:4	202:11 204:22 206:16 207:20	considering 12:: consisted 305:14

MIDWEST LITIGATION SERVICES Phone: 1.800.280.3376

Case: 4:14-cv-02077-RWS Doc. #: 82-9 Filed: 09/30/15 Page: 104 of 155 PageID #: 1090

JONATHAN RODDEN, Ph.D. 8/20/2015

378

Fax: 314.644.1334

consistency	continued 3:1	34:2,20,21,22	111:11,21	162:2,3 164:8
104:10	30:1	35:11,12,15	112:12,20	164:13 165:2
consistent 77:1	continues 42:15	38:4,7,8,11,14	113:7,13,14,18	165:19 166:10
81:7 102:21	43:3 236:10	39:7,10,11,16	115:23 116:9	166:14,16
275:8 328:22	296:1	39:17,21,22	116:19 118:3	168:9,13,17
344:2	continuing 96:14	40:8,17,21,22	119:2,7,8,10,15	169:14,15,22
consists 284:15	288:14	41:14 42:12,16	119:23,24	173:1,16
constitute 329:13	contributions	42:21 45:17,18	122:20 124:12	174:13,25
consulted 239:1	318:7	46:1,4,11,15	124:13,17	175:5,10,11
240:12 241:4	controversial	47:13,15,19	125:14,15,18	179:24 182:9
contained 238:6	242:11 294:3	48:2 49:3,16,17	126:3,8 128:5	182:15,21
contains 81:20	controversy	50:12,13,15,16	128:11,15,22	183:11,17,18
297:19	96:17,25 97:5	50:20,21,24	129:12,14,21	185:18 186:2,8
content 332:16	97:17 114:17	51:22 53:2,5,7	129:22 130:3,4	186:12,13,19
contest 225:4	243:6,16	53:13 54:4,14	130:11,21,25	186:20,23
284:19	converge 163:6	55:13,19 56:4	131:7,16	187:2,12,16
contested 75:9	converged 40:25	56:17,21 57:3,9	132:19,25	188:9,10,13
93:4 134:22	300:14	58:8,11,15,19	133:1 135:17	189:4,22
136:7 141:16	convergence	58:20,23,24	136:12,13	190:19,23
147:21 149:12	163:3 166:6	59:3,12 62:15	137:8,10,16	191:4 192:4,7,9
149:21 150:2,7	conversations	64:14,20,25	138:17,21	193:4,17,25
150:8 151:3,11	8:5 95:5,12	65:12,15 66:1,4	139:22 140:3	194:4,9,14,25
151:19 152:9	96:11	66:15,16,21	140:18,21,23	195:1,6,9,10,12
152:10 153:11	convince 89:24	67:5 68:9 69:3	141:2,4,14,22	195:16 196:1
154:6,16,20	cooper 3:23 50:2	69:15 70:15	141:23 142:1,4	196:14 197:11
180:6,8 211:23	100:2,10	72:8,9,13,14,21	142:7,17,23	197:15,22
234:1 253:13	334:25 335:1	72:23,24 73:5,8	143:8,19 144:2	198:20,22
257:19,23	335:15,17	73:9,17 74:13	144:3,22 145:6	199:2,13,14,16
335:10 336:3	350:23	76:6,14,22 77:7	145:13,16,20	199:17,19,20
336:10 357:15	coopers 100:6,9	77:12 79:24	145:25 146:3,8	199:22 200:18
357:16	307:8 308:2	80:6,17 81:3,4	146:15,16,23	200:21,24
contests 3:12	335:6,15,24	81:22 82:19,23	147:1,10,11	201:6,10,23
147:24 280:18	341:13 342:8	84:3,8,12,16,17	148:8,14,17	203:14,17,21
280:24 281:2,2	348:25 350:10	85:6,11 86:11	149:13,14	203:25 204:10
281:16	350:14,21	86:12,14,15,18	150:3,13,23	204:11,16
context 9:24 19:3	copy 3:24 308:17	87:3,7 89:4,22	152:17,22	205:4,5,7,8,11
37:5 92:4	308:20 336:16	90:14,23 91:18	153:11 154:9	205:15,16,17
224:21 243:19	365:11,14	91:19,21,22	154:12,13,22	205:21,24,25
257:8 293:17	cormsby 4:17	93:1,8 100:7	155:3,6,12,13	206:3,4,8,12,16
contiguous 29:17	correct 5:24 9:2	101:10,11,17	155:22 156:1,8	206:22 207:3,4
continuation	14:8 17:13 18:4	101:18,21,22	156:9,11,16,23	207:6,7,10,13
102:8	18:5,10,12,15	102:2,5,11,14	157:2,7,12,18	207:14,16,17
continue 42:7,20	18:22 21:14	104:9 105:2,7	158:10 159:1	207:21,25
59:11 76:24	22:23 23:6	106:1,2,5,12,18	159:14,21,22	208:1,3,4,5,6,8
198:15 296:2	24:12,22 27:25	107:3,10,16,25	160:1 161:20	208:9,11,12,15
309:3	28:8 31:4,8	109:5,24	161:21,24	208:17,18,23
	1	!	•	•

MIDWEST LITIGATION SERVICES Phone: 1.800.280.3376

Case: 4:14-cv-02077-RWS Doc. #: 82-9 Filed: 09/30/15 Page: 105 of 155 PageID #: 1091

JONATHAN RODDEN, Ph.D. 8/20/2015

379

Fax: 314.644.1334

				319
209:16,18,25	251:3,11,14,18	272:4,5,16,20	316:1,10,20,21	359:17,18,22
210:4,5,6,10,11	251:21,22	273:20,21	317:8,9,14,15	359:23 360:2,3
210:18,22,24	252:1,13,25	274:5,10 275:5	317:19,24	360:7,9,14,15
211:24 212:3	253:5,10,17,18	275:18 276:3	318:10,11,12	360:20,21
212:11 213:4,7	253:3;10;17;10	276:13,14	318:14,24	361:17,18,21
213:12,19	254:17,25	277:3,7 278:12	319:14 320:15	361:24,25
214:2,7,12,13	255:6,8,12,25	278:14 279:22	320:18,22,23	362:5,9,11,15
214:18 215:1,3	256:4,11,19,23	280:4,8,10,15	321:8,9,13,18	362:25 366:8
215:7,10,12,13	256:24 258:5	280:16,18,21	321:21 322:7	366:12
215:15,16,22	258:10,11,15	280:24,25	322:19,20,24	correcting
216:2,3,8,12,14	258:16,20,24	281:23,24	323:8,14 325:4	240:24
216:15,19,23	258:25 259:3,4	282:13,14,17	325:7,11	corrections
217:9,10,14,16	259:22 260:1,6	282:22,23	326:24 327:3,6	365:14
217:20,21	260:15,24	283:12,13,14	327:20 328:1,3	correctly 31:24
218:6,7,9,14,18	261:1,3,7,9,11	283:16 284:6	329:7,8 330:8	35:6 37:17 39:3
218:19,25	261:15,17,19	284:12,13,16	330:15 331:12	41:11 53:9
219:1,3,4,7,11	261:22,24	284:22 285:6,7	331:15,19	83:23 91:10
219:12,15,16	262:1,5,7,9,13	285:9,14,18	332:12 333:3	143:12 160:13
219:19,20,23	262:15,17,23	287:16 288:17	333:16,19,20	188:17 225:25
220:2,15,20	263:2,5,6,7,8	289:4 291:17	335:18,19,21	253:10 257:6
221:1,5,14,15	263:10,13,15	291:21,25	336:5 338:11	257:11,13,25
223:2 224:4,5,8	263:17,20,22	292:5,14 293:2	339:5,6 342:23	260:18 276:6
224:9 225:17	263:24 264:3,5	293:3,24	342:24 343:10	293:16 296:8
226:1,4,5,17,18	264:7,11,13,15	294:17 295:10	345:5,14,19	304:18 322:15
226:22 227:1,5	264:24 265:4,9	295:11,18	346:12 347:9	329:17,25
227:9,10,12,15	265:17,20,21	296:13,23	347:15 349:1	331:7
227:16,18,21	265:23 266:13	297:2,3,6,15,16	350:2,7,16,18	correlation 49:5
227:22,25	266:15,17,19	297:20 298:4,8	350:22 351:2,5	49:7 50:15 52:7
228:4,8,17,22	266:23,24,25	298:21,22	352:9,13,16,17	52:9,11,20,23
228:23,24,25	267:1,2,3,5,7	299:1,7,9,14,15	352:18,19,21	54:21 55:4
229:1,2 230:19	267:10,14,18	300:9,10,18,22	352:22 353:7	63:22 97:14
230:21,25	267:22,24	301:1,2,6,7,10	353:10,16,20	119:3,12,16,18
231:13,23,24	268:1,2,5,6,8	301:11,22	353:10,10,20	232:14 243:21
232:17 234:21	268:12,13,16	302:2,5,9,14,18	354:9,10,15,16	273:12,13,21
234:25 235:4,7	268:18,19,20	302:19,22,23	354:18,19,22	correlations
235:10,11,13	268:21,24	303:1,5,10,11	354:23 355:2,3	125:20,21
235:17,21	269:2,3,4,5,6,7	303:14,15,16	355:7,8,13,14	232:13
236:2,5,6 237:7	269:11,13,14	303:18 304:1,5	355:18,19,23	corresponding
239:13 242:17	269:15,16,19	305:4,8,15,20	355:24 356:2,8	2:21 110:22
243:16 245:4	269:20,21,23	306:2,4,10,18	356:9,12,13,17	301:16
245:12,14,16	269:24 270:2,3	307:3,9 308:7	356:18,24,25	corresponds
245:17 246:15	270:5,6,7,8,11	309:8,11,14,23	357:3,4,8,9,15	107:15 127:17
247:9,10,13	270:12,13,15	310:3,9,10,20	357:16,21,22	127:18 128:4
248:25 249:16	270:19,23,24	311:1,24 312:7	358:1,2,14,15	cost 333:12,18
250:10,18,19	271:11,14,15	312:8 313:13	358:21,22,25	couldnt 175:18
250:21,22,25	271:19,24,25	314:5 315:25	359:1,9,10,13	175:22 285:21
, , -	, , -		, , -, -	
				1

MIDWEST LITIGATION SERVICES Phone: 1.800.280.3376

				380
350:17	22.22.24.2.25	crotzer 4:14	220.11 222.10	208:10 213:13
	23:23 24:3,25	365:6 366:22	330:11 332:10	213:21 214:3
counsel 5:2,2 61:21 81:19	45:22,23 70:19 71:1 75:22		333:1,5 data 2:22 3:6	233:12 238:6
		crotzerormsby		
96:9 107:15	118:8,19,25	4:17,18	12:13,15,15,18	238:22 241:8
127:14,15	125:9,17	cumulative	12:19 16:3	256:6 260:5
184:9 237:24	133:12 163:25	341:11	21:16,21 26:24	297:8 305:3,24
346:7 364:11	176:16 177:6,8	curious 33:1	27:2,2,4 31:7	306:19 308:13
364:14	178:15,19,24	current 9:18	31:10,11,12,13	309:14 315:7,8
count 135:22	178:25 179:3	10:13 68:12,17	50:23 51:1,5,8	315:18 316:1,2
136:2 151:1,2,7	179:14 180:5,7	161:4 239:15	51:11,16,20,23	316:3,7,7,12
151:9 152:25	225:11 277:15	currently 15:7	52:2,3,5,14,18	320:11 324:4,7
213:10 249:18	277:23 278:4,5	202:22 222:4	53:17 55:18,20	324:8,11
251:25 252:3	282:9 297:18	curriculum 2:10	55:25 56:10,12	352:11 361:2
253:4 255:23	316:25 317:18	cut 124:6 152:2	56:14,21 57:9	362:2,10,12,20
279:6 344:8	318:8 336:15	153:18,20,22	57:11 58:13,23	363:14
362:2,4	340:14 345:21	154:2 155:8	59:2,4,11,13	date 15:1 326:18
counted 213:25	364:4	361:2	61:25 63:18	365:17 367:4
counterfactual	courts 24:1,7	cutoff 216:25,25	64:8 66:22	dated 47:15
36:17	27:15 118:9,18	217:2	67:16,22 68:5	239:21 272:16
counting 239:22	286:12,13	cutting 228:13	68:22 69:5 70:9	287:15 308:5
279:7	covenants 41:5	cv 8:14,25 13:8	72:6,10,20 73:8	dating 244:24
countries 10:7,23	41:23 42:2,7		74:6 78:22	249:14 265:16
13:3	cover 279:18	D	80:20 82:7 83:1	270:19 272:3
country 313:22	coverage 238:23	d 1:13 2:10,15	98:25 100:17	276:3
counts 55:22	covered 333:15	5:12 20:5	102:9,11,12,13	day 1:14 66:5,14
117:5 257:19	covers 106:7	291:10 365:12	102:16,16,17	66:21 69:14
258:17,18	craft 17:23	366:4,14,23	102:18 103:12	70:13,14 86:23
county 1:9 16:19	create 73:19	367:3	103:13,16,18	167:18 336:9
37:12 38:11,14	182:6	dale 4:6,7 100:11	103:25 104:12	348:20 366:16
43:16 44:20	created 238:3	202:17 365:17	104:13,25	days 40:25
296:6,17,21	317:17	365:22	105:2,7,22,23	de 330:21
297:1,5,14	creates 162:16	dameron 147:5	106:3,8,12,16	deadline 283:6
331:4,4,5,14,15	creation 236:16	158:22 159:9	106:25,25	deadlines 283:1
348:3 366:2	236:24	160:1,10,17,23	107:5,5,7 111:3	deal 13:7 15:22
couple 95:3,13	crime 44:22,25	161:1,19	111:12,24	27:8 87:24
97:8 233:20	45:4	164:24,25	112:9 114:23	125:8 221:19
295:22	criminal 330:22	165:4,8,13,18	115:22 116:4	232:18
course 12:7	331:11	166:13,13	116:18 117:3,8	dealt 126:12
15:23 59:4	criticized 313:15	167:5,8 251:17	117:13,16	dear 365:10
96:19 123:4	313:16	damerons 159:18	119:9 123:6	debate 76:23
170:24 198:14	critique 123:19	161:4,7 167:9	126:16,17,17	debates 276:25
265:3 340:16	cross 334:7	dartmouth 3:19	126:21 127:15	decade 105:9
361:5	crossover 120:4	317:7 321:8,18	127:17,18	152:11 153:8
court 1:1,19,21	120:6,12,19,22	326:14,19,20	128:20,25	154:6,16,20
6:3,12 18:12	121:1,4,8,12,13	327:6,20,24	164:22 179:15	155:6 248:5,15
20:1,3 22:16	122:16 124:4	328:14,16	180:14 185:16	decades 46:2
20.1,5 22.10	122.10 12	329:15,22	100.11.100.10	2304405 10.2
	l	l ´		I

MIDWEST LITIGATION SERVICES Phone: 1.800.280.3376

Case: 4:14-cv-02077-RWS Doc. #: 82-9 Filed: 09/30/15 Page: 107 of 155 PageID #: 1093

JONATHAN RODDEN, Ph.D. 8/20/2015

381

Fax: 314.644.1334

				361
decennial 31:7	214:20 215:1,6	decreased 319:6	democratic 19:7	127:11 134:20
31:10,11 55:18	216:4,10 217:5	deeply 14:22	284:10,11,16	136:24 164:2
55:25 56:7,14	217:7,13	15:18 39:24	289:8,9,11,24	185:2 237:22
56:23 57:1,9	218:20 225:11	defendants 1:11	290:6,14	238:16 241:6
58:23 59:2,11	227:7 228:20	1:25 3:20 4:13	democrats	259:12 272:10
60:4 61:21,24	231:6,11,20	5:2 336:13,18	289:14 290:22	287:12 317:2
100:17,23	235:3,23 244:5	348:23 349:22	291:3,9	321:1 325:2
101:3,8 102:12	244:6,7,16,20	350:20	demographer	363:22 364:8
102:16,17,18	244:21,22	defense 19:6,11	111:24	364:12 365:11
102:20 103:2	245:1 246:4,6	define 25:4	demographic	366:5,7,10
103:13,15	246:10,11,15	101:23 121:13	9:22 58:18	describe 9:16
104:13 105:1	246:19 247:7	144:25 210:10	313:3	10:10 22:8
105:22 116:17	247:11,14,21	220:14 251:21	demography	25:20 26:1 28:4
117:8,13,16	247:24 248:6	350:5	277:25 313:4	39:18 91:12
126:21 316:7	248:21 249:11	defined 53:10	demonstrably	92:2 97:17
decentralization	249:12,16	111:10 138:2,2	70:23	98:21 118:1
11:1	252:11 254:21	145:24 148:11	demonstrate	133:6 158:12
decide 24:25	254:22 255:4	209:20 255:11	322:6	159:4 167:7
75:22 177:22	258:19 259:15	265:7 324:21	demonstrated	175:13 210:25
277:15 278:4	259:20,25	defining 146:22	71:17	211:7 212:19
323:23 324:5	260:9,10	147:8 149:3	demonstrative	220:7 235:3
decided 246:23	265:11 278:6	150:12 153:9	3:23 260:4	256:14 259:2
decides 178:24	281:5,13 282:2	154:8 155:18	271:24	described 12:16
179:15	295:13 321:6	208:20 231:21	denominator	13:16 14:20
decimal 341:13	321:11,15,20	definition 148:19	53:18 71:6,7	15:23 17:6 27:1
decision 3:18	322:5,5,10	149:15,24	363:5,6	28:15 29:11
23:24 24:8	326:12 327:24	150:16 153:1	denominators	48:20 49:21
175:23 176:4,5	328:4,6,9,12	195:2 208:19	85:24	52:8 55:20
177:12 180:2	329:10 330:3	254:14 359:5	density 298:21	78:20,23 93:3
180:25 181:1,4	330:19,24,25	360:19	299:16	117:2 126:16
181:7 183:6,19	331:9,20 333:1	definitions 168:4	department	162:5,15,22
184:17,18	354:3,8,11,21	degree 76:18,20	60:18,22 61:6	173:7 181:3
185:13 186:14	354:25 355:5	84:7,12,21 85:5	324:22	197:24 259:24
187:10,15	355:11,16,21	86:14 157:15	depend 51:4	327:4
188:6 190:1,6,9	356:6,15,19	157:16 169:17	depending 114:9	describing 93:12
191:5,7,13,15	357:1,5,11,18	186:12 190:25	depends 77:17	212:10
192:12,14,17	357:24 358:16	191:23 192:2,8	98:13 360:23	description 2:9
193:10 194:11	359:13,21	192:23 194:14	depicts 297:20	3:4,20 15:6
195:25 196:4	360:1,5,12	195:18 196:12	deponent 188:15	274:2 322:3,4
199:15 201:1	361:11,23	203:23 219:9	deposed 5:23	descriptive 256:7
201:21 202:20	decisions 292:16	219:13 228:15	deposes 5:14	desegregated
202:21 205:3	293:2,6	274:17 300:22	deposition 1:13	45:20,22,22,25
205:19 206:19	declare 366:11	353:4	2:8 3:3 5:3,7,9	45:25
207:2,23 208:2	declined 93:8	demise 38:21	7:12,24 8:1,6	desegregation
209:3,14 211:1	decrease 115:3	democrat 284:19	67:19 81:12,15	44:3,4,14 296:3
211:15 213:18	115:13	285:4 290:20	99:24 107:12	296:4,5

MIDWEST LITIGATION SERVICES Phone: 1.800.280.3376

Case: 4:14-cv-02077-RWS Doc. #: 82-9 Filed: 09/30/15 Page: 108 of 155 PageID #: 1094

JONATHAN RODDEN, Ph.D. 8/20/2015

				382
	İ	İ		I
design 36:25	112:24 116:13	178:1,17 184:2	183:21 244:19	69:21 70:2,21
324:2 327:9	122:17 170:21	187:7 202:16	361:1	71:19,20
designate 259:22	211:16 224:25	203:8 225:14	disagreement	disparity 16:5
designated 68:3	249:24 280:23	227:4 231:6	275:3	69:15
designation	283:3 292:19	274:25 275:21	disagreements	dispatch 3:8
183:24	297:12 299:19	276:3 278:22	273:10	display 52:16
designed 16:2	308:23 309:2	279:9 280:4	disclose 331:3	78:11,12
designer 327:16	323:13 325:2	282:21 283:11	disclosure	displayed 125:21
desired 365:14	329:6 349:8	289:19 311:11	329:24 330:7	disproportiona
destitute 41:9	350:8 351:2	312:25 343:3,6	330:13	94:11
detail 13:19	358:12	349:18 351:9	discontinuity	dispute 35:18
117:14 125:4	differ 279:20	differential 72:2	114:8	38:6 41:14
309:15	314:9	314:22	discounting	100:21,25
detailed 311:8	difference 48:18	differently 93:12	299:25	101:1,2,6,7
details 236:13	48:19 70:6 78:8	133:9	discourse 29:2	274:12 287:25
324:1	84:15 85:10	difficult 33:10	30:17	288:19 328:4,6
determination	130:1 160:11	160:6 161:25	discovered 48:11	disputing 273:9
326:20 330:21	168:16 177:12	162:19 223:8	153:18 238:24	dissertation
determine 28:10	180:24 191:17	273:3 277:23	discovery 81:19	35:17 36:21
52:23 56:14	194:8 197:17	332:6,6 342:3	discriminatory	distance 193:6
134:17 180:7	205:17 275:11	difficulties	41:16,20	297:21
191:9 318:13	286:20 300:15	163:13 222:3	discuss 254:2	distinct 79:12
344:22 346:12	363:11	difficulty 162:19	301:18	235:20 300:8
355:6,16,21	differences 83:21	278:20	discussed 89:21	distinction 289:5
357:12,18	194:6 299:11	dilemma 162:24	91:3 95:8 96:18	distinguish
361:12	351:7	dimension 99:19	112:14 131:3	161:15 253:20
determined	differencewise	direct 5:15 306:5	169:1 228:18	256:21 258:22
342:6 343:4	346:24	306:23 307:4	253:6,25	259:1
determines	different 12:12	316:11	258:19 260:11	distinguishable
324:15 329:11	12:16 13:5	directing 232:3	296:13,20	78:16 160:22
329:21 330:10	17:17 23:8	direction 14:21	299:24 301:20	160:25
determining 71:1	36:14 49:4	43:19 193:13	348:22 349:3	distributed 9:24
203:3 358:18	56:23 59:1 64:5	364:10	discussing	distribution 9:20
developed 10:7	71:18 74:7,7,10	directly 71:22	131:25 272:6	10:20 13:18,20
12:7,18 15:24	74:24 78:1	304:2,3 305:24	277:18 336:9	13:23 17:1,1
17:3 245:19	85:23 86:23	306:3,17	discussion 90:9	28:17 233:16
325:19,22	87:14 93:19,20	309:11,22	90:24 92:10	district 1:1,1,9
devised 350:11	96:8 97:10	310:2,9,25	127:25 132:13	1:21,22,25
dick 25:24	98:11,15,17,18	311:3 315:18	134:11 157:22	21:12 23:5
272:19	102:3,11 114:5	316:8	218:23 291:24	27:12 25:3
didnt 32:11	114:8 119:5	director 12:9	294:4 310:10	
34:22 53:20	122:24 129:9			36:1,3,6,9,13 37:3 38:13 40:3
		disadvantage 133:22 182:23	disentangle 33:10	
54:1,2 65:7	133:10 134:3			40:7,11 45:21
71:11 74:18,25	155:8 156:20	disadvantages	disparities 14:18	48:2,9 49:9
75:4,4,17 78:25	163:7 169:21	183:13,16	15:1,3,5,5 16:1	55:18 56:4,16
88:6,11 89:8,11	169:22 177:21	disagree 167:14	16:6,23 69:18	60:15 61:1

MIDWEST LITIGATION SERVICES Phone: 1.800.280.3376

Case: 4:14-cv-02077-RWS Doc. #: 82-9 Filed: 09/30/15 Page: 109 of 155 PageID #: 1095

JONATHAN RODDEN, Ph.D. 8/20/2015

				383
62:17 63:4 65:5	315:20 316:10	dividing 346:14	114:14,16,17	313:8,12 315:5
65:8 67:4,11,15	316:15 335:17	doctorate 158:4	114:14,16,17	319:25 324:3
69:20,23 70:21	337:9 342:7	document 238:1	115:25 116:7	326:18 328:2
71:1,16,18	351:2,4,15,20	238:3,5,22	116:10 118:18	328:11,11,13
72:12 88:8,16	352:13 353:15	321:3,10	120:11 121:2	328:15 333:25
89:3,19 95:14	356:16 362:13	331:13 332:23	123:7 137:18	348:12 352:23
96:7,8 97:3,11	363:8,13 365:9	332:24	137:19 161:18	353:6,22,23
100:19,24	366:25 367:4	documents	162:8,10	362:8 363:15
101:5,10,16,21	districting 22:22	322:11	163:17 164:16	363:18
104:8 105:1,6	23:13,24 24:11	doesnt 32:15	164:18 165:4	dooley 283:21,22
105:25 106:10	24:20 26:18	126:21 161:3	165:16 166:7	284:2
106:17 107:3	31:18,22 335:8	179:5,6 181:21	166:13 167:18	doris 1:5 294:18
108:8,12	351:19	225:11 246:10	167:20 170:10	295:4,9,17
110:10 111:2	districts 10:1,5	254:6 294:25	170:19 171:10	338:10
111:19 112:12	19:6,12,13 20:2	299:10 303:24	171:16 172:14	dot 76:3,4,6
112:20 113:7	21:18 27:19	doing 12:25	172:15,16,17	104:4,4
113:13,17,25	28:20,22 29:13	16:10 17:19	172:18,23,25	dots 60:10 76:10
115:1,9,11,12	29:16 30:6 31:2	20:20 28:14	173:11 175:7	77:21,22
116:9 118:2	31:3,7 32:3,19	34:8 54:18	177:11,22	103:11 105:21
119:6,15	33:4 36:18 37:6	56:13 78:22	179:5 180:20	156:22 160:7
123:23 128:10	50:1 59:2,6,8	152:4 165:25	180:22 182:19	double 131:22
128:15 129:14	74:2 121:16	178:17 200:16	183:22 186:10	165:6 174:15
129:25 150:9	229:25 334:20	212:12 246:14	192:6 193:3,5	249:18
150:18 152:13	334:23 335:7	290:23 294:2	199:8,15 200:4	doubled 16:14
153:9 154:21	335:10,10,18	325:25 340:14	203:13 204:7	doubt 342:20
171:15,19,23	335:22 336:1	346:14 347:18	211:6 213:13	download 16:3
172:21 230:4	342:8 351:9	dominate 37:16	213:14 216:25	363:14
232:17 239:16	diversity 39:15	38:11	219:13 221:4	downloaded
240:2,4 242:16	40:13	donor 317:25	225:8,8 226:11	67:24
242:23 244:24	divide 342:7	dont 14:6 17:25	228:15 229:14	downward 298:2
265:16 272:25	347:1	20:5,25 21:1,9	229:15 230:17	360:21 361:1,4
273:8 276:22	divided 53:4,12	21:19 22:14	232:22 237:14	dr 5:17,23 8:14
278:17 279:20	54:14,22 55:5	23:3 34:23,23	239:14 244:15	14:8 18:6 21:14
280:1,14	59:17,18 62:2	34:24 36:7,11	248:4 253:6	22:24 23:6,17
282:17 285:18	65:24 66:11	36:17 38:6 47:7	254:2,3,3 259:8	24:12,22 25:3,7
285:23,25	69:12 70:12	52:11 57:14	266:3 274:12	27:19 28:8
286:2 287:4	245:7 338:19	63:7 67:12,16	274:14,21,25	32:11 33:25
288:16 292:5	338:19,20,23	73:7,15,18,18	278:6 279:6	45:15 47:11,22
292:21 293:7	339:3,15,16,16	73:24 77:9 83:4	285:8,12 287:6	50:1 51:13 52:9
293:11 299:21	339:19,22,22	87:9,10 88:12	291:18,19	56:4 64:9 65:9
300:12,21,25	339:25 340:1,3	89:8,10 92:16	295:5 298:12	67:23 69:15
301:4,9 303:5	340:3,6,6,7,8	92:17,19 93:13	298:14,23	70:15 72:25
303:10 305:2	340:19,21,22	94:1,2,5,7,13	299:4 301:13	78:9 81:22
305:12 306:1,8	340:24 341:2,5	96:10 100:5	305:18 306:8	83:10 88:6
307:2 309:8	341:8	102:23 105:10	306:23 307:15	89:12 101:12
313:5,7 315:5	divides 335:17	109:22 110:19	307:16 308:20	107:17 109:9

MIDWEST LITIGATION SERVICES Phone: 1.800.280.3376

JONATHAN RODDEN, Ph.D. 8/20/2015

				384
112:20 113:21	312:13,17	e 4:1,1	168:11	109:22 129:1
114:12 116:9	313:11,22	earlier 12:16	ecological 49:13	136:15 160:25
116:13,18	314:5 315:21	23:3,11 27:1	50:14 54:8,15	161:19 202:19
121:5 122:20	315:25 316:6	28:16 34:14	54:20 55:6 71:4	219:18 234:8
122:25 124:6	316:17,23	40:14 56:9,9	72:16 75:7	285:22 287:4
124:12 125:4	317:4,7 318:15	77:10 86:19	123:5,9,19	290:13 314:17
126:9 128:2	320:15 321:3	88:1 89:11,22	124:23 126:1	315:22 326:2
129:20 153:11	321:13 323:14	98:22 100:5	135:23 266:10	336:9 340:10
153:22 155:3	323:19 325:2	115:21 116:11	274:7,12 275:7	353:22
156:1 157:18	348:17 349:4,7	116:16 117:2	282:15,18	elect 26:19 27:13
158:4,5,19,25	349:9,13 350:7	117:19 156:18	economic 11:10	224:11 225:2
158:25 159:14	351:22 352:6	156:21 157:14	16:24,25 17:1	elected 120:24
159:20 162:5	353:20,25	161:12 162:5	edge 170:1 198:6	137:17,20,24
164:5,7,10	357:10 358:12	162:15 179:22	209:3	139:1,20 140:6
166:14 167:15	358:25 359:22	192:17,18	edited 17:21	140:14,20
169:7 171:2,4	360:8 361:17	197:24 233:10	editor 15:11	141:8,14,22
171:14 172:10	362:1,6,25	238:8 239:10	educational	142:4,13,19
175:18 176:24	363:3	240:25 242:3	69:24	144:1,25 145:8
178:8 180:18	dramatically	242:18 258:2	effect 29:7 42:20	145:15 146:14
182:9,15	97:16	258:19 296:13	88:13,15 89:2	146:23 147:10
183:11 184:10	draw 10:5 19:12	296:20 301:13	223:1 318:14	147:18 148:13
184:24 190:4	28:19,21 30:6	305:12 328:9	effectively 20:18	148:22 149:2,8
211:4,11	32:19 59:6,8	352:15 363:12	162:23	150:7 176:23
213:19 214:2	78:19 86:23	early 298:3	effectiveness	186:21 188:8
215:1 222:17	118:15 123:7	easier 82:1,5	50:1 350:10,14	188:13 194:19
240:13,14,15	179:10 286:3	103:10 128:19	effects 41:19	194:24,25
240:22 241:9	320:11	168:14 260:17	42:6	195:5,6 196:1
241:19,20	drawbacks	easiest 129:2	effort 16:22 20:3	201:23 203:17
244:12,17	279:15	easily 222:2	27:1 32:3,3	204:9 205:21
245:4 246:16	drawing 43:15	241:5	34:3 57:4,5,6	207:5 208:5
247:24 252:9	52:16 94:24	eastern 1:1,16,21	72:3 90:2 98:7	212:20 215:3
259:14 272:7	123:14 177:25	4:9 37:25	253:16,19	216:8 217:14
272:19 273:6	297:4 315:16	easy 63:18	256:13,21	218:25 219:23
274:4,13	drawn 16:11	ebenstein 4:5	258:8,22 259:1	220:1,9 224:7
275:12 276:4	19:7 20:2 21:18	ebert 145:5	311:4 323:2	227:12 228:24
279:16 280:4	29:14 50:1	147:14 158:22	326:7	235:9 236:2
281:23 282:11	304:6 319:23	160:25 161:6	efforts 16:14	252:20 261:3
282:25 283:15	draws 27:19	168:8,16,20,22	17:3 30:18	261:11,19
287:9,16,22	drew 95:5 200:7	168:25 170:14	31:20 32:5 33:3	262:1,9,17
288:1,15,20	drop 179:8	218:12,21	33:12,22 96:20	263:2,10,17,24
295:25 297:15	dropp 317:7	219:2,11,15,18	98:5,10 99:7	264:7,15,20
301:13,22	324:8 327:5	221:21 222:6	eight 248:22	265:15 266:19
302:2 304:18	329:15	222:23 246:25	249:6 345:14	267:2,10,18
305:21 307:3,9	due 91:4	263:13,15,17	354:17	268:1,12,20
308:1,8 310:21	duly 364:8	264:10,13,15	eighth 157:9	269:6,15,23
311:1 312:7,9		eberts 161:8	either 82:6	270:7,15

MIDWEST LITIGATION SERVICES Phone: 1.800.280.3376

Case: 4:14-cv-02077-RWS Doc. #: 82-9 Filed: 09/30/15 Page: 111 of 155 PageID #: 1097

JONATHAN RODDEN, Ph.D. 8/20/2015

				38
283:22 339:15	164:4,15	337:1,7,9	176:6,7,14,22	27:12,25 28:19
344:6,6 350:1	169:24 171:3	338:13,14,17	177:22,23,24	28:22 31:21
electing 120:16	172:2,6 173:2,4	339:7,11,13,18	178:3 209:13	120:15 225:12
282:6 350:11	173:5,6,13	339:21,24,25	209:23 211:16	277:25 278:1
350:14	174:5 175:14	340:2,5 343:13	211:23 212:3	282:4 291:2
election 2:23 3:5	176:9,15	343:18,19	212:17,24	336:1 350:2,6
3:17,21 12:20	177:18,20	350:22 356:23	213:4,12,17	351:15
33:5,25 48:12	180:17 183:2,3	356:24	214:1 230:17	electorate 60:11
53:11,13,21	184:4,5 185:8	electionrelated	232:19,20	86:22 322:22
66:5,14,21	185:10,17	329:14	233:20 234:7,9	email 4:7,11,17
69:14 70:13,14	191:10,12	elections 1:9 35:5	234:12,13	emerge 31:21
73:2,10,14 74:7	194:25 196:22	35:8,9,11,11,14	242:16,22	emerges 28:14
75:10 76:3,8,17	196:23,24	35:22 36:2,5,10	244:24 248:4	38:5
79:6 82:11,15	204:13 208:7	36:16,19,22,24	249:14 252:19	emphasized
82:19,23 83:21	208:11 212:19	37:9,16,20 38:3	252:20,25	241:16
86:23 87:16	213:1,3 214:5,6	38:11 47:24	253:3,9,13,17	empirical 9:9
88:14 89:2	215:15,18	48:9,15,21 49:1	253:20 254:4,7	employ 158:3
90:12 91:4,13	216:6 218:6,7	49:15,20 50:12	255:2,10	176:4 183:14
91:17,21 92:21	220:8,25	53:25 54:2,9	257:19 258:10	198:25 265:11
92:25 93:3,5,6	224:18 225:20	73:6,25 74:3,4	265:3 271:6	employed 171:2
93:8 96:19 97:9	226:2,19,21	74:10,11,14,16	273:20 274:10	209:14 223:2
97:14,19,21	232:18 233:25	74:10,11,14,10	275:20 274:10	364:11,14
98:8,11 99:5,18	234:5,5 235:7	75:20,20,24	276:16 277:2,6	employee 364:14
99:20 123:21	236:19 240:14	83:25 84:5,11	277:6,10,12	employees 37:15
124:10,16	240:16 242:13	84:14,19 85:4	278:10,11,18	38:10
125:3 126:3	242:20,22	86:8 87:1,3,6	278:21 279:9	employing 168:5
128:9,14	243:3,7,15,24	88:5,8,16 89:25	279:21 280:1,3	encl 365:21
129:13,16,24	244:2 245:15	89:25 90:20	280:8,10,12,15	enclosed 365:11
130:8,22	246:20 248:5	97:10 117:25	280:17,20,24	365:12
131:10,22	254:1,3,8,11,13	118:7,12,20	282:17 283:14	encourage
132:3,13,24	254:16,18,19	119:20 120:5	284:1,5,8 285:9	318:22
133:6,8 135:5,7	254:10,18,17	122:13 123:22	285:14,16,17	encouraged
135:14,16	255:21,24	126:3 134:23	285:21 286:1	158:5 171:5,24
136:14,20	256:3 257:4,12	136:8,10,11,12	286:17 287:23	172:2,5,11
137:7,8 138:16	258:9,13,14	147:21 148:5,6	288:2,6,17,21	172.2,3,11
138:17 139:12	260:23 265:2	149:12,21	289:7,22	encouragement
139:13 141:16	266:9 270:9	150:2,8 151:1,4	290:16 291:15	172:20
141:17 142:6,7	278:23 284:18	151:10,13,15	293:24 294:24	encouraging
142:23 146:2	284:22 286:18	151:19 152:8,9	295:20 317:13	171:19
146:25 147:1	289:12,13	151.19 152.8,9	319:14 334:19	ended 236:12
	,	153:11 154:7		
147:24 148:13	294:9,16 295:21 319:22	153:11 154:7	335:7,9 336:4 354:14 355:16	endogenous 74:14 75:20
151:3,17 153:4	322:11 323:3			
155:11,14 157:11 158:1,2	323:14 324:10	155:11,15 163:1,4,7,9	357:14,15,16 358:9	277:6,10 278:17
,			electoral 2:13	endorse 354:9
161:23 162:2,9	335:22 336:2,6	166:3,5,24	10:1 21:12	
162:11,13	336:7,8,25	172:10,22	10.1 41.14	356:7,20 357:2

MIDWEST LITIGATION SERVICES Phone: 1.800.280.3376

Case: 4:14-cv-02077-RWS Doc. #: 82-9 Filed: 09/30/15 Page: 112 of 155 PageID #: 1098

JONATHAN RODDEN, Ph.D. 8/20/2015

386

Fax: 314.644.1334

				300
357:11 358:17	279:4 352:16	174:12,22	59:12 72:16	263:12,20
360:12 361:22	escape 344:9	175:3 185:24	75:8 76:11	264:2,9 266:10
endorsement	especially 9:24	186:6 187:4,6	77:25 79:23	266:15,21
292:9	70:25 102:21	189:3,23	80:5,16 81:1,6	267:5,12,21
endorsements	115:9 300:13	190:21 193:7	83:19,19 85:8	268:4,14,24
291:25 292:4	331:25	193:16,17	85:14 101:15	269:11,19,25
292:17 293:2,6	essence 343:9	194:2 198:1,7	103:3,6,21	270:10 273:5
293:11	essential 123:17	200:20 201:4,9	104:9 105:8,15	274:8,13,15
ends 45:1	essentially 19:15	202:10,23	106:1 111:6	275:2,7 282:12
enforces 321:25	55:1 62:16 79:8	203:4 212:4,7	112:23,24,25	282:16 295:13
engage 58:25	80:25 150:15	212:22 213:18	113:1 126:2	295:18 297:13
171:5 226:7	274:3	213:23 214:10	128:8,13	301:22 309:13
325:10 327:1	established 21:23	215:24 216:17	132:25 133:7	350:25 351:23
engaged 224:4	37:10 59:16	217:18 220:4	133:16 134:15	352:11,21
226:4,16	89:11 115:21	220:11,13,18	135:5,15,17,23	353:16 357:12
326:13,21	116:11,16	220:23 221:6	136:9,19 137:3	357:18 358:18
327:25 328:10	126:9 156:21	226:24 227:19	137:11 138:3,7	et 1:24,25 365:9
engaging 176:18	157:14 161:12	256:15,17	138:20 139:16	365:9 366:24
325:10 329:7	164:7 173:11	258:19 259:17	141:17 144:25	366:25 367:3,4
engstrom 25:24	173:12 179:22	261:13 262:3	145:24 147:9	ethical 9:13
272:20 274:22	179:25 197:1	282:20 306:7	148:12,21	325:3
engstroms 274:4	258:2 262:7	306:14 307:5,7	149:4,17,17,25	ethnic 37:10
275:12,18	267:16 325:1	310:17,19	158:8 160:9	etran 363:20
enter 21:9	352:15	312:5 315:23	165:12 167:2	evenly 158:22
entered 240:20	estimate 31:21	316:1,18	175:16 180:10	177:18
entire 57:3	54:20 76:2,7	352:25 353:1,9	181:6,8 182:13	event 92:17
355:12 357:25	77:5,6,15 78:5	356:22,23,24	187:2 189:20	236:18,22
358:4,6 359:4	80:7,10,11,21	357:5 359:6,16	192:1 193:14	events 93:11 99:4
361:16	82:10,14 85:17	estimated 106:20	193:19 196:2	99:5 114:11,14
entirely 326:22	85:19 86:9	109:10,11,12	197:14,20	115:7
entitled 345:8,23	107:21 111:3	109:14 140:1	198:16 204:4	evidence 30:10
345:24,25	111:22 112:17	140:10 141:11	205:11,14	65:6 240:20
346:1	112:18 140:11	143:23 146:6	206:6,7,14	330:25 331:11
enumeration	140:16,25	147:13 159:18	207:18 209:21	exactly 126:12
57:2,3	141:25 142:9	168:25 169:13	209:22 210:4	153:18 162:16
equal 31:4 59:21	142:16 143:7	173:14,15,23	210:10,21	162:21,24
69:10,14 70:10	143:10 144:5	186:1,5 189:7	211:2 212:1	178:16 184:12
73:16 341:12	144:14 145:4	190:18 194:7	214:14 216:1	274:25 289:2
341:17	145:11,18	195:20 196:8	218:12 220:2	314:6 347:22
equally 254:8	146:6,13,17	197:9 206:10	229:19 230:25	359:22 361:2
equated 45:4	147:3 148:3	206:11 217:23	231:5,12,19	examination 2:3
errata 365:13,15	153:2 158:10	219:6 221:11	249:13 251:21	5:15 334:7
365:16 367:1	159:9,9,14,20	221:13 227:24	251:24 252:12	348:15
error 57:21 58:7	160:21 161:1,5	228:7 242:19	254:15,22	examine 26:14
58:15,19	161:7,13 165:1	estimates 2:24	255:4,12 261:6	162:25 163:2
115:22 116:1	169:6,11 174:7	49:14 54:8 55:6	262:11 263:5	165:21 224:18

				387
276:20	exercises 277:21	3:24 5:7 127:9	20:9,15 21:19	faced 51:25
examined 1:14	279:7	127:10,11	21:20,23 22:13	facilitate 253:21
5:13 280:8,17	exhibit 2:9 3:4,20	238:15,16	23:2,4 26:20	facing 94:19
examining 31:18	3:23 8:12 27:22	336:23	experts 19:19	fact 11:3 36:9
example 32:16	34:12 47:11	exist 177:1	21:25,25 22:1,9	38:25 44:23
40:12,15 64:21	67:18,19 81:11	existence 95:10	123:12 286:7	66:13,22 70:13
64:24 65:1	81:12,15,25	existing 3:22	expires 366:19	88:17 91:16
122:2,17	99:23,24	31:18 342:1,12	explain 15:4,5,19	93:7 112:23
124:18 131:3	101:13 107:10	348:25	50:7 92:3	133:11 149:11
212:24	107:11,12	exists 291:19	102:24 125:6	160:24 166:13
examples 13:10	127:14 128:3	319:15	190:7 334:16	169:16 185:8
122:12 177:1	128:18 136:23	exodus 114:22	340:14	186:10 195:21
exceed 70:14	136:24 148:2,2	exogenous 74:10	explained 29:23	211:3,11
exceeded 84:6,11	157:4 163:24	74:19 75:1,12	302:20	213:17 219:17
84:20 85:3	164:2 173:13	75:14,21 277:2	explains 121:11	230:12 246:1
exceedingly	183:20 184:21	280:7,15,17,24	287:6	247:16 275:25
358:9	208:20 209:7	281:7 284:5	explicit 236:17	286:5 287:1
exceeds 85:16	208.20 209.7	285:9,13,16	237:1,6,10	294:7 297:9
86:21 87:2	211:21,21	expect 115:13	238:20 239:11	301:20 317:25
359:8 361:14	214:22 237:21	expect 113.13 expectation	241:10 242:4	329:1 361:19
excel 2:21 81:18	237:22 239:20	326:9	explicitly 171:5	362:11,22
107:14 109:3	244:4 249:12	expenditures	246:10	factor 37:5 92:1
128:4 184:22	259:12 260:4	329:24 330:8	explore 16:4,20	93:4,14,15
exceptionally	260:17 265:23	330:13	134:2 359:17	292:25
91:6	271:24 272:9	expensive 91:6	express 292:12	factors 3:17
excitement 87:24	271:24 272.3	experience	292:21 329:14	287:15 300:18
exclude 73:10	276:8 287:12	116:21 240:3	338:1 340:10	facts 3:6 45:9,12
245:20 253:9	295:7,12	experiment	340:11	45:12 166:18
excluded 246:9	301:15 307:12	319:11	expressing	167:9,14 238:6
excludes 246:7	307:25 308:16	expert 3:7 7:13	272:24	238:22 241:8
exclusively 44:22	317:1,2 320:25	7:15 11:23 12:2	expression 32:14	288:8 321:16
excusable 330:21	321:1 322:18	12:6 14:17,24	340:18	322:6 329:12
excuse 145:10	334:16 336:18	15:14 18:6,18	expressly 5:6	329:21 330:10
executed 366:16	336:24 337:13	18:21,25 19:20	extending 156:22	fail 41:6
exemption 326:2	342:14,14,17	19:21 20:4	extending 130.22 extent 11:8,8,12	failed 225:22
327:7,8,12,23	344:17,19	22:13,21 23:25	160:5	226:12
329:3	346:9 348:23	24:3 25:2,6	externally 37:1	failing 81:5
exercise 75:6	348:23 349:3	27:7 45:12	externally 37.1 extra 308:24	failure 328:20
146:23 150:12	349:19,22	47:12 100:2	extract 316:4	331:2
150:25 155:18	351:23,25	118:10 125:19	extremely 63:23	fair 9:8,12 10:10
179:14,15	353:24,25	133:19 178:7	184:12 313:4	29:18 48:7 78:4
184:8 192:13	354:2 356:17	179:23 202:18	eye 332:15	84:18 91:23
192:15 273:4	357:8 358:13	238:7 272:19	eyeballing 98:25	93:10 94:10
273:10 275:24	359:12 362:2	286:6		149:23 150:15
276:7 343:23	362:15	expertise 14:20	$\overline{\mathbf{F}}$	150:19 158:16
344:21	exhibits 2:7 3:1	17:4 19:17 20:6	f 1:4 336:12	159:23 161:22
377.21	CAIIIDIG 2.7 J.1	17.717.1720.0	face 337:17	137.23 101.22
	<u> </u>	<u> </u>		<u> </u>

Case: 4:14-cv-02077-RWS Doc. #: 82-9 Filed: 09/30/15 Page: 114 of 155 PageID #: 1100

JONATHAN RODDEN, Ph.D. 8/20/2015

				388
166:18 168:5	feedback 17:23	120:5 123:23	301:21	170:8 186:15
174:19 175:12	346:13	128:10,15	figure 2:18,19,21	229:5
201:12 214:20	feel 14:19 19:22	129:13,25	2:22,23 3:5,14	fills 318:17
217:6,6 218:1	19:25 22:15	150:9,18	49:10,12 52:8	final 90:16
221:16,18	25:15 129:1	152:13 153:9	54:7 59:23 71:4	135:25 310:12
222:20,24	237:9	154:21 171:15	72:15 76:17	327:5
228:10 270:25	fell 217:15	171:19,23	81:21,25 88:2	finance 317:21
275:6,12,14,15	felt 162:23	172:1,21	99:11,12,15,15	318:22 322:1
fairly 219:17	ferguson 3:8	232:17 242:16	100:10,17	financially
232:25 235:3	38:20 39:2,6,13	242:23 244:23	101:14,14	364:15
fall 81:1 109:22	39:16,20 40:25	265:16 272:25	102:25 103:1	find 67:9 69:9
285:24 306:11	44:21,23 46:10	273:7,20	107:16 109:20	70:24,24 84:14
306:12	46:14,21	275:20 276:2	119:1 120:1,2	87:9 95:1
falls 77:14 78:6	296:22	276:22,23	121:6,9,11	118:21,24
80:22 168:11	fergusonfloriss	277:12 278:9	125:21,25	122:12 163:1,2
169:12 175:4	1:8,24 2:19	278:11,16	126:7 127:15	163:19 230:5
209:7 217:3	3:10,12 35:10	279:19,21	127:19 128:4	239:2 279:11
familiar 6:2 9:8	36:1,3,5,9,13	280:1,3,14	128:10 129:2	279:12 282:8
9:12 289:22	36:18,19 38:13	282:17 285:18	135:21 136:16	286:12 352:2
325:2	40:2,7,17,20	285:23,25	136:17 156:21	365:11
family 95:6,7,13	45:10,21 47:24	286:2 288:16	209:17 229:25	finding 35:16,19
95:24 299:22	48:1,8,15,25	292:4,21 293:7	230:1,2,10,10	37:1 89:24
far 44:15,17	49:8,15,20	293:10,24	232:2,22	321:15 329:11
69:19 105:9,21	50:10,12,19	294:8 298:11	253:12 255:15	329:20 330:4,5
192:20 209:10	54:9 55:17 56:3	299:17 300:7	260:16 294:12	330:20,25
297:24 298:6	56:16 60:25	300:20,24	297:19,20	findings 322:5
298:10 304:18	62:17 63:3 67:4	301:4,9 303:5	298:16 300:16	348:4
343:3	67:11,15 69:20	303:10 305:2	301:16 310:23	finds 95:2
farm 41:8	69:23 70:2,20	305:11 306:1	335:11 337:2	fine 21:5 24:24
father 95:21	71:16,18 72:8	307:2 309:7	figures 100:23	47:6 48:6 57:5
favor 187:1	72:12 73:1,3,7	313:5,7 314:16	301:16	61:21 90:24
favorably 286:14	74:1,3,15 75:9	314:18 315:4	file 81:18 107:14	100:15 163:14
favored 37:10	75:19 84:2 88:7	315:20 316:9	filed 224:17	202:14 324:3
fax 365:2	88:15 89:3,19	316:15 353:15	242:12 348:1	330:23 333:24
feature 284:20	97:11 100:18	356:16 362:13	files 127:6	finegrained
features 10:2,3	100:24 101:5,9	363:8 365:9	filing 365:17	12:13 125:10
279:9 285:3	101:16,21	366:24 367:3	filings 318:4	125:13,16
featuring 284:8	104:8 105:1,6	fewer 110:18	fill 152:3 184:10	finish 6:5,7 124:7
284:10	105:25 106:5	177:15,15	318:23 336:21	178:11 223:15
fec 318:4	106:10,17	245:4	336:21 341:10	239:6 294:16
federal 46:1	107:2 108:7,11	ffsd 2:23 3:5	filled 170:15	finished 231:12
58:21 324:21	110:10 111:2	field 9:10,17,19	184:11 244:4	359:12 363:17
federalism 10:19	112:12,19	12:19 77:2	244:16 336:24	firm 320:11
10:25 11:6,19	113:7,13,17,25	157:23	340:17 348:23	first 6:3 12:22
11:24	114:19 116:9	fifth 109:6 157:5	349:23	31:16 33:2 35:1
feed 71:22	118:2 119:5,15	176:9,22	filling 165:24	40:24 43:6 49:5

MIDWEST LITIGATION SERVICES Phone: 1.800.280.3376

				389
102.1 105.0 10	6 yoyoon 60,20	26:6 50:6 75:10	331:22 332:3	future 22:4
103:1 105:9,10 105:11,14,19	fiveyear 60:20 154:4	90:25 166:5	foundation 4:4	297:17 326:8
103.11,14,19	fix 200:9 260:7	177:24,24	founder 12:9	332:18
120:6 134:4,8	flat 88:18,20	177.24,24	four 8:3,9 72:6	332.10
134:12 136:4	flawed 278:25	focused 176:15	72:10 83:16	G
138:8 160:4		177:21 310:11	109:5 119:20	gabel 4:16
175:16 176:14	flaws 279:2,3	focuses 12:8	122:13 151:8	308:21
	fletcher 140:2,5	13:15 44:22	152:7 155:19	gain 245:23
176:19,21 215:9 233:24	195:14 196:1,4 199:13 261:14	175:17	155:20 176:7	gaining 14:20
236:11 251:25			176:14,21	gap 64:11 105:23
	261:17,19	focusing 15:3	· · · · · · · · · · · · · · · · · · ·	155:2 156:13
272:22 275:17	flight 45:5 floor 4:4	16:7 27:9 177:25	181:17 230:21 230:23 231:12	189:6 298:8
277:16 278:8		focussed 45:14		gaps 300:17
278:14,19	florida 18:10,24		248:11 250:13	garofalo 138:19
322:11 324:4	19:3 20:13,21	focussing 222:11	309:25 358:19	139:1,7 141:11
330:19,19	20:24 21:11	folder 309:2	fourth 128:13	188:25 189:3,7
332:14 333:6	32:8,12,16	folk 319:24	252:4	189:14,21
340:19	florissant 3:8	following 96:21	fractions 340:17	192:6 193:7,15
fiscal 10:24,25	44:21,23 48:21	176:5 187:17	frame 358:6	
11:1,19,24	87:6,20,23 88:4	202:2 348:11	359:4 360:7,18	193:17,19,24
fit 11:15 52:12	88:9,10,14,17	follows 24:17	framework	194:6,12,20 195:8 205:10
117:5 126:21	88:18,19,22	food 301:5	278:25	
fitting 52:13	89:1,18 90:12	footed 333:16	free 129:1 154:2	205:21,23
five 40:19 59:9	90:20 92:9,11	footnote 66:25	frequent 233:5,9	208:14,22
69:7 70:8 109:5	92:12,13 93:2	67:1 102:24	frequently 95:1	209:15,25
109:5 151:8	94:7 96:4 286:2	296:10	171:21 194:22	250:10 261:5,9
152:8 154:3	300:14	force 38:24 45:25	232:25	261:11 262:4,7
155:10,11,12	flows 102:21	241:15 242:2	friend 96:4,5,6	262:9 338:6
155:15,24	flyer 3:18 317:11	forced 59:14	friends 95:6,7,13	339:8
156:5,8,15	317:16,22	foregoing 171:7	96:2	garofalos 189:18
176:6,13 177:3	320:14 321:20	364:7 366:5,12	front 13:8 67:16	189:23
225:21 229:18	322:12,17	form 13:4,5,15	213:13,21	gay 11:11
231:17,22	323:8,16	109:1 229:5	239:22	gears 346:6
242:12 248:19	324:15 327:2,6	366:6	full 5:19 136:1	general 3:17 7:1
249:3 250:16	327:13,18	formatted 82:1	172:16 236:12	36:15 43:17
252:18 265:6,9	328:21 329:7	former 97:2	239:18 322:2	48:22,24
265:9 271:13	329:13 331:12	240:2	330:19	220:21 283:25
271:13,17	331:24 332:9	forming 233:14	fully 322:2	284:10,21
290:22 345:17	332:12 333:19	forms 49:4	326:18,18	289:13,22,25
345:17,20	flyers 322:10,13	102:11 351:16	function 96:17	298:2,3
346:1,1,4 355:1	323:10,12,24	formula 110:3	furry 240:4	generally 9:9
355:15,23,25	332:14	forth 29:17 61:9	further 75:15	11:2 70:4 77:1
356:3 358:16	focus 10:14,16	132:9 225:10	96:18 283:7	81:7 119:22
358:21,24	11:4,20 12:10	292:18 299:20	318:1 348:13	133:3 157:23
359:5 360:10	14:9,16 15:1,4	forward 82:6	363:16 364:13	281:10
360:14,18	15:13,22 16:13	found 93:25	furthermore	generate 73:20
361:16	17:10 20:15	119:12 273:22	71:2	102:10 103:25
				113:4
	1	ı	1	1

Case: 4:14-cv-02077-RWS Doc. #: 82-9 Filed: 09/30/15 Page: 116 of 155 PageID #: 1102

JONATHAN RODDEN, Ph.D. 8/20/2015

				390
generated 87:24	70:6 75:23	99:17,22,23	197:18,19,20	great 6:11,17
243:6 260:5	81:24 93:22	108:2 114:8	198:18 199:1,4	7:11 13:7 15:22
generous 36:23	109:2 159:3	122:14,18	199:19,21	22:5 27:8 67:8
genuinely 333:6	163:12 166:17	126:3 127:21	216:17 217:7	87:24 137:7
geographic 9:20	167:14 169:1	143:12 151:20	217:11,13,19	138:16 140:9
9:24 13:18	169:16 219:21	152:7 167:19	217:22 218:1	149:1 185:16
58:14,18	220:17 224:17	169:7 178:9	250:12,24	232:18 257:18
geography 2:12	273:4,5 275:24	179:8 180:22	267:4,7,10	299:17 309:5
9:19 10:2,3,11	283:1 312:20	183:20 184:7	268:24 269:1,4	greater 69:19
11:5,18,24 15:9	312:25 342:10	197:24 217:5,6	269:6 294:19	94:3 115:4
27:24 28:16,19	343:22 350:9	240:1,6 241:14	295:4,9,17	253:16 254:6
28:23	gives 177:14	253:24 259:9	338:10	258:8,12 313:9
gerrymandered	182:2 240:3	290:13 313:16	graph 46:18	green 290:7,14
31:23	244:21 251:4	317:10 331:20	53:25 60:11	290:20
gerrymandering	294:22	334:9,11	74:6,23 75:7,14	greens 290:23
2:12 19:5 20:16	giving 6:6 60:3	336:11,25	86:2,25 91:15	gridlock 15:10
20:16 27:24	319:11	337:25 338:1	102:10,12,19	grips 325:15
28:12 29:1,4,6	gladly 286:10	346:6 353:8	103:5,16,17	groove 43:15
29:9,20,24 30:4	glance 277:16	good 5:17,18	104:2,3,11,14	group 12:10
30:9,18 31:20	go 6:1 11:9 53:21	25:13 46:24	105:12,17	21:24 32:4 76:8
32:2,9,14,23	71:10 72:4,5	47:2,5 57:6	106:14,22,25	76:17 78:6,7
33:13,17,22	81:17 89:7	61:6,11,14	107:6 111:13	94:4 102:4
34:5	107:5 121:21	78:21 90:5	112:6 113:4,8,9	122:14,15,18
gerrymanders	121:24,24	93:15 124:24	113:24 121:21	126:25,25
32:20	122:10,21	125:8 128:21	123:3,6,7	130:12,14
gestures 6:13	123:4 124:9,15	152:22 176:9	124:22,22,25	157:17 176:11
getoutthevote	124:23 125:23	221:19 225:6	168:14	176:12 177:19
96:20 98:4,10	151:2 165:23	232:16 252:16	graphed 112:21	241:16 277:21
99:7	179:2 184:13	259:6 307:14	graphs 53:22	278:23 282:3
getting 193:11	185:15 188:21	311:10 322:4	119:18	313:9,17,18
222:8 224:22	238:25 260:5	337:13	grappled 278:20	314:12 361:13
237:16 288:8	260:14 283:6	gotten 16:12	gratifying 274:18	362:5,16
289:16 326:2	283:17 293:11	43:14,14	graves 147:4,14	groups 16:24
gingles 125:9,17	301:12 333:21	226:15 233:21	158:3,4,5,19,25	33:15 35:3
180:2 225:11	333:23 338:16	governing 325:3	158:25 159:14	37:10,13 58:18
281:5,13 282:2	344:3 352:3	government 11:2	159:20,25	60:17 65:23
give 13:10 17:22	goal 120:14	38:24 39:16,20	162:5 164:8,10	78:9 80:6 83:22
25:16 60:16	246:14	40:12 58:21	166:9,10,19	96:16 299:12
62:4 108:2	goals 33:14	61:5 106:15,25	167:8,10,12,20	299:16 300:13
112:7 122:1	goes 13:19 41:2	315:18	167:23 168:1	312:23 314:10
129:20 136:22	106:3	governments	169:7,12,18	314:14,22
157:5,9 212:23	going 21:4 23:15	10:21,22,23	171:4,12,14	grown 87:22
233:15 239:18	46:25 47:4,7,10	68:9	172:10 247:18	guess 21:4 54:18
293:17 337:16	61:18 76:4,10	graham 139:18	247:18,20	99:2 105:16
353:13	82:5,9 84:18	139:20 143:2	251:15 270:10	114:21,21
given 13:7 66:17	88:3 90:8,17	196:9,13,25	270:13,15	115:6,15,16

MIDWEST LITIGATION SERVICES Phone: 1.800.280.3376

				391
167:4 194:24	67:6,17 71:13	henson 122:4	highest 2:24	highly 233:25
222:10 237:12	75:25 165:25	125:1 145:12	98:19,23,24	234:5,14
238:6,15 289:4	184:25 297:7	172:11 225:22	132:25 133:7	hines 158:23
298:12,13	297:16	227:17 228:2,3	134:15 135:4	160:10,18,23
guide 3:18	hard 54:4 73:13	228:7,10,21,24	135:15,17	161:6,10,20
318:13	108:22 112:13	229:1,8,20	136:9 137:3,11	165:19 166:14
guidelines 9:13	182:16 286:5	251:7 269:19	138:3,7,20	167:6 169:14
328:22	326:3 344:9	269:21,23	139:6,17 140:1	169:18 247:18
gwen 132:18	havent 52:9	342:21	140:10,11,17	247:19
173:25 203:3,8	212:16 232:8	hensons 172:4	140.10,11,17	hirsch 132:19,24
268:3,7,10,12	291:20	hes 100:21 169:1	142:10,16	137:12,22
208.3,7,10,12	hawkins 143:2	263:8 274:14	143:1,7,7,11,23	137.12,22
<u> </u>	216:17 217:7	hesitated 71:3	144:5,14 145:4	174:20 175:8
hadnt 308:24	217:11,13,20	high 63:24 88:5	145:11,19	176:1 186:2,4
half 64:16 65:1	217:11,13,20 217:23 218:2	91:4,13 99:1,20	146:5,13,18	186:11 187:1
84:10 101:24	250:24	181:8 232:4	140:5,13,18	187:11,18,24
121:23 122:1,7	head 6:13 105:10	233:2 242:14	, ,	′ ′
121.23 122.1,7	head 6:13 105:10 header 47:22	242:25 243:13	148:3,4,11,20 149:4,17,25	188:5,7,8 250:6 260:23 261:1,3
122:21,24		242:23 243:13	, ,	
123:17 124:8	117:23 266:2 276:16 322:10		153:2 159:8	hirschs 174:13
124:14 165:25		higher 36:22	165:1 168:8	175:2,5 186:6
170:16 221:13	headers 109:6,7	57:17 69:6 70:8	169:6 173:14	hispanic 2:16
245:4	heads 6:13	77:23 80:10,14	174:7,23	314:11,11
halfway 83:12	headtohead	80:22 85:9,20	185:17 186:1,4	hispanicwhite
hand 52:24 53:1	289:11	86:10,13 87:11	188:25 190:17	263:9
110:25 163:16	health 324:22	150:22 159:25	194:3,7 195:19	historical 37:23
165:22 197:19	hear 345:21	160:10 167:6	196:8,13 197:1 197:13 198:20	historically 37:9 37:20 38:3
282:4 311:9	heard 25:18,24	169:18 174:12		
336:11,15,15	68:11,11,14 92:13 116:20	175:20,21 184:23 185:6	201:4,19 204:15,23	history 43:2 ho 2:4,5 4:6,7
349:19	116:24 117:12	191:1 193:16	204:13,23	5:16 46:24 47:7
handful 48:16	117:15,21	198:18 204:5	207:15 210:4	100:13,15
handled 162:23	290:25 291:2	206:15,21	215:20 216:17	144:11 184:15
hands 279:12	328:18	207:19 214:15	219:6 221:6,11	188:14,18
hands 273.12 handsomely 35:4	heart 222:10	215:25 216:22	226:25 227:23	202:1,10,13,15
handy 110:2	heart 222:10 heavily 12:8	218:17 227:19	230:24 246:3	202:1,10,13,13
happen 97:18	heise 214:17,18	228:14 229:20	254:15,22	308:16,23
211:16 217:1	held 36:18,19	232:8 233:4	254.15,22	309:3 333:25
222:13 358:12	73:2 127:25	234:24 243:2,3	268:23 342:25	334:3 337:16
happened 92:24	151:10 335:9	243:19 245:25	356:22,22,23	337:20 338:6
336:22 341:14	336:4	288:21,25	359:6,16	348:16 349:8
348:6 358:13	help 6:8 28:22	291:14 298:25	highestranked	349:11,14,17
happening	240:3 246:23	299:6,13	264:2,10	363:15 365:17
118:23 184:13	326:7	300:25 301:4,9	275:19 276:1,6	365:22
happens 9:25	helped 17:23	314:13 351:13	356:10 360:20	hogshead 139:7
10:4 28:21 90:4	helpful 109:9	351:18 352:24	highlighting	141:12 145:12
happily 285:11	helps 91:14	353:1	32:16	145:15,19
happy 46:25 47:4	11C1p5 71.14	333.1	32.10	145.15,17
ш ирр у 10.23 чт.ч				

				392
190:18,23	298:18	317:3 321:2	illinois 1:19	166:20,23,25
191:1 192:7	houses 299:22	336:19	364:4,6,21	167:4,18 168:5
193:7 194:2,7	hudson 1:4	identified 163:13	illuminating 75:5	169:8,8 170:11
194:12,21	human 300:2	165:13,20	75:21,23	173:6,22 177:5
195:9 205:10	324:19,23	211:11 260:18	illustrative	178:5,5,9
205:21,24	325:11	290:19 291:16	335:15 349:1	180:22 184:7
208:14,22	humble 24:2	291:17	350:21	184:15,21
209:1,6,15,25	hunch 29:4	identify 20:17	im 9:23,25 10:2	185:4,5,5
210:8 212:20	hypotheses 89:13	132:17,21	11:1,13 13:3	187:17,17
213:10,16	hypothesis 29:20	160:6 161:25	16:25 19:15,21	188:2,16
226:24 227:12	30:8 89:20	162:20 163:16	21:1,3,3,8	189:14 191:5
227:14,24	94:25 318:24	182:18 186:17	22:11,11,11,14	192:16 194:20
228:2,6,11,16	319:5,15,23	192:10 216:5	23:15 25:5,14	194:23 195:20
229:4,13,23	320:13	217:7 223:19	25:15 29:5,7	200:9,14 202:2
230:2,19,23	hypothesize	247:20	31:16 32:11,12	202:18,20
231:12,15,22	94:22	identifying 68:22	32:24 33:1	209:12,12
233:20 251:10	hypothetical	69:1 184:18,22	34:18,25 42:17	210:14 212:16
253:3 263:19	31:22 62:4,23	265:12 290:24	43:18 46:25	214:8 217:5,6
263:22,24	63:13,20 64:10	310:1	47:2,4,10,22	218:6 223:17
338:6 339:8	64:11,22 65:5,9	ideological 319:9	49:3 50:5 55:5	224:22 229:5
343:1,6,9,14,15	65:11,13,16	319:12,20	56:9 57:25	230:5,11,12
345:1	66:12 70:24	320:6 323:4	61:18,18 62:2	232:21 233:11
hogsheads 232:7	73:21 131:8	ideology 317:19	62:15 63:20	233:12,14
233:1	182:10 334:24	319:1 323:1	65:8 68:9 70:5	234:12 236:8
holding 349:19	334:25 335:6	idiosyncrasies	72:24 75:12	239:22 240:1
home 15:21 16:8	337:9 342:7,8	254:1	76:14 77:20	240:22,24
41:24 42:3	344:21	ignore 118:21	79:6,9,13,14,25	245:14 249:19
homeowners	hypotheticals	135:19 180:15	83:15 84:24	249:21 254:18
37:13 38:10	182:16	257:21 294:19	87:20 89:7	257:16 266:7
44:10		333:8 356:11	92:12 99:4,12	272:22 275:3
homogenous	I	ignored 326:14	99:17 100:14	276:8 277:14
123:12,18	idea 115:18,19	327:25	102:18 104:16	281:8 282:5
honest 34:3	178:19	ilcsr 364:21	104:17,19,20	283:14,21
hoops 72:4	ideal 56:6	ilcsr084 4:22	108:2 109:16	286:6 288:8
hope 14:4 29:12	ideas 178:17	365:21	109:20 112:4	289:5,6,13,16
82:24 83:1	292:17	ill 6:5,6,11 23:21	119:2 122:20	289:17,21
255:20	identical 71:8	25:15 32:24	123:14 126:10	291:1 292:15
hopefully 126:16	275:8 312:13	57:12 82:8	126:11,11	292:15 293:20
203:10 337:22	identifiable	100:1 107:11	127:2 129:4,12	294:15 295:25
hour 47:1 165:25	235:7	110:25 124:6	133:10 135:8	297:25 300:5
170:16	identification 5:8	190:7 197:6	140:2 141:4	302:10 308:14
hours 8:3,9 259:9	67:20 81:13,16	231:9 258:7	143:5,12,13	308:22 309:1,5
household	99:25 107:13	274:22 293:21	149:18 151:20	309:19,19
297:21 298:17	127:12 136:25	296:1 308:21	156:19 158:14	313:6 315:7,15
300:6,8,11	164:3 237:23	341:19 349:6	160:21 161:9	315:16 316:24
households	238:17 259:13	352:2	164:1 165:25	317:10 321:9
	272:11 287:13			
	I	I	<u> </u>	

Case: 4:14-cv-02077-RWS Doc. #: 82-9 Filed: 09/30/15 Page: 119 of 155 PageID #: 1105

JONATHAN RODDEN, Ph.D. 8/20/2015

				393
	1	I .	I	I
322:2 324:13	impossible 117:3	income 16:5 17:2	329:24 330:7	66:20 71:5
326:18,21	impoverished	61:9 69:25	330:13	72:16 75:8
328:14 329:10	44:5	297:21 298:3,7	index 2:1,7 3:1	123:5,10,19
331:20 334:9	impression 38:12	298:17,25	324:12	124:23 126:1
336:11 337:25	52:15 98:7	299:1,6,7,13,13	indian 362:9,14	135:23 266:10
338:1,23	243:9,10 281:9	300:7,9,11,14	362:23 363:9	274:7,12 275:7
340:16,19,20	360:21 361:4	incoming 114:19	indicate 229:20	278:21 279:10
340:21,22	impressions	incorporate	230:2 365:14	282:15,18
341:1 345:21	233:14	246:11	indicated 288:22	294:23 304:6
345:23 346:6	improperly	incorrect 22:25	indicates 291:13	inferences 60:17
346:18 347:2	326:13,21	85:21,22	indicating	78:19 123:8
349:12,13,15	327:25 328:10	135:18 149:9	261:14 262:3	178:1 179:10
352:4,5 356:3	improve 327:16	240:25 258:3	262:12 287:22	315:16
images 329:13	impute 211:2	260:7 363:3	288:1,20	inferential 123:1
imagine 182:16	imputing 211:9	incorrectly 84:23	362:12	123:17
183:2 311:10	inaccuracy 51:4	274:15	indicators 61:14	influenced 31:19
313:2 335:5,5	inaccurate 51:6	increase 44:24	69:21 71:17	information 3:18
imaging 292:15	237:19	45:4 58:15,19	indistinct 79:8,9	9:22 12:21,21
imagining 86:1	inaccurately	97:6 98:2 115:4	79:14,21 80:3	16:23,25 17:1
351:6	244:16	320:7 323:7	80:15	21:8 23:23 24:4
immediate 38:20	inadvertent 34:6	345:12,13,18	indistinguisha	24:6,7 60:14,15
95:13,24	inappropriately	363:10	81:3 83:22	61:12 67:2,7,9
immersed 14:22	51:9 326:21	increased 44:6	86:18 167:11	68:8 71:13 82:1
15:18	incident 93:18	91:20 96:16	176:3 189:25	90:18 94:14
immersing 20:19	include 46:13	97:16 99:9	199:11	112:15,22
immigrants	54:1,3 67:1	114:22 115:14	individual 20:5	113:4 118:17
37:11	74:18 90:18	242:24 243:24	58:17 180:12	118:21,24
impact 89:25	110:6 212:24	361:8	individuals 19:22	126:17 173:9
115:7,12	252:18 280:23	increases 119:21	32:5 112:10	173:10 178:16
324:16,19	299:3	155:3	113:10 303:4	178:25 179:14
impacted 324:15	included 50:2	increasing 115:2	303:17 305:15	184:16 236:15
impasse 165:11	53:23 95:6	313:21 314:1,3	305:19,20,25	237:12 271:23
impersonation	110:1,4 125:22	incumbency	306:7,9,13	278:5 283:9
331:23 332:4	126:10,23	286:16 287:6	310:1,17,20	297:8 303:21
implication	129:8 213:15	294:23	311:20,21,24	304:3 305:22
286:18	213:20 327:18	incumbent 268:7	312:4,6,11,14	306:5,23 309:6
implicit 160:19	includes 110:4,5	269:1 283:15	312:16 313:9	313:12 314:20
importance	110:20 252:24	283:23 284:2,6	314:4 315:3,24	317:18,20
325:16	253:2 294:13	284:21 286:23	316:19 347:7	318:6,13,20,21
important 15:8	325:6	287:3 294:4,6	362:3,4,12,22	319:1,6,11,20
15:13 44:19	including 15:9	incumbents 91:8	363:9	320:5 323:20
45:7,10 50:23	41:4 69:24,24	194:21 284:3	inevitably 28:22	informed 95:15
51:16 86:20	213:4 238:23	284:24 286:19	infer 93:10 278:1	348:6,6
93:4 125:8,23	271:9	293:15,23	inference 49:13	initial 47:12
243:4 281:9	incohesive	incurred 333:18	50:14 54:8,16	100:12,16
315:5	133:24 164:20	independent	54:20 55:6	112:4 136:4
- -				
	l	l	l	

MIDWEST LITIGATION SERVICES Phone: 1.800.280.3376

				394
273:12 277:5	intentions 33:23	196:18 197:21	irb 324:20 325:7	358:8
278:10 279:3	interest 10:7	198:2,8,19,21	325:10,16,23	330.0
282:16 303:19	17:9 22:5 27:14	200:23 202:11	326:2,6,9,13,20	J
303:22 304:7	28:16 32:18,20	206:16 207:20	327:1,6,20,24	j 2:14 3:7 20:5
305:22,23	35:3 71:12	209:1 214:16	328:9,16,19,21	janelle 95:23
310:11 320:12	242:15,25	203.1 214.10	328:25 329:2,6	january 239:21
initially 28:15	243:7,14	intervals 58:7,10	isnt 85:17 130:7	jebenstein 4:7
inner 44:7	interested 9:20	58:19 79:2,4,15	162:10 166:12	jerry 96:5
inside 198:2	9:23,25 10:2	79:22 80:5,16	176:24 331:19	job 24:1,2,7,8
insight 171:16	11:2,13 13:4	81:2,6,9 82:18	issue 11:8,12,14	322:2
instance 61:15	16:17,25 86:22	82:22 115:22	11:19,25 13:11	john 95:23
72:20 73:15	99:11 118:20		15:1 18:1 24:11	johnson 1:5
		115:25 116:4,7 116:13 135:20		146:7 234:20
80:9 114:17	318:20 364:15		24:20 41:17,24	237:7 251:12
247:15,17	interesting 28:13	156:23 157:1,6	42:3,12,24	joining 22:10
276:11 279:24	61:7,8 75:15	157:15 160:8	74:11 95:11,25	jointly 332:11
285:25 359:2,7	92:18 271:16	160:16 161:2,5	156:20 241:18	jonathan 1:13
instances 133:23	282:8 285:1	167:3 168:12	241:22,23	2:10,14 3:15,17
178:21	332:1	176:8 190:13	277:7 278:7	· · · · · · · · · · · · · · · · · · ·
instinct 278:14	interests 12:17	191:9 198:1	288:6 291:21	5:12,21,21
278:19	interjected	199:12 204:22	332:23	329:16 365:12
institution	211:19	209:4 244:9	issues 11:10,10	366:4,14,23
325:17,23,24	intermarriage	256:22 259:3	92:6 95:8	367:3
326:3	314:1,2,21	274:20,24	241:20 277:18	journal 2:11 18:1
institutional	internal 328:12	344:22 352:18	280:4 330:25	179:7
324:18,20	348:9	353:6,19	ive 7:7 10:24	journals 17:16
institutions	interpretation	intimidation	11:17 12:22,25	jowei 27:23
325:21 326:6	202:16	41:5 42:23 43:3	13:2,6,7,14	judgment 225:12
329:3	interpretations	introduced	14:3,19,22,23	judgments 20:1
instruct 7:3	275:13	334:25	15:23 16:10,21	21:17 89:14
instrument 327:9	interracial	invested 61:5	17:3 20:5,7,16	judicial 317:13
insufficient 91:1	313:21 314:9	investigation	20:17,17,20,22	judy 95:23
insufficiently	314:13	292:7,19 293:5	25:17 27:1,8,15	julie 4:5
311:8	interrupt 61:18	326:19 348:10	29:11 43:21	july 272:16
insure 31:3	61:19 100:14	investment 41:9	52:8 64:8 69:17	287:15 308:6
integrated 296:7	178:10,10	involve 284:24	79:19 81:24	jump 173:20
296:18 297:10	200:15	involved 16:21	87:13 93:3	jurisdiction 62:4
300:13	interstates 41:7	158:2 280:20	117:21 153:17	62:9 63:13,17
integration 38:22	interval 76:11,15	293:1,5 322:17	163:19 165:10	116:20,24
44:18 296:21	77:5,6,11,24	325:17,21	172:15 179:25	117:12,15,18
296:25 297:5	78:6,19 80:8	326:6,11	180:4 182:22	131:25 179:20
297:13	157:10,18	343:23	186:15 191:14	181:13,15
intensively 20:22	161:8,10,14	involvement 36:4	240:20 243:18	273:22,25
intentional 28:12	169:13,21	involves 44:4	291:2 304:18	286:24 287:2,5
29:20 30:17	175:2,4 185:25	49:23	314:6 326:7	287:5
intentionally	186:7 189:24	involving 13:20	328:17,18	jurisdictions
31:22 34:3	190:22 196:3	96:18 325:11	338:18 348:6	116:17 279:19
				285:17,22
	<u> </u>	l	<u> </u>	<u> </u>

				395
286:10,11	202:3,7 203:13	185:7,13,17,24	209:4 318:20	22:14,17 24:5
justified 330:23	203:20,24	186:10,16	knowledge 47:18	31:10 33:9 46:1
justifying 331:1	204:9,10	190:25 191:3	51:14 87:21	125:20 133:19
	206:12,16	191:21 192:2,6	knowles 142:1,1	281:5 286:13
K	207:16,20	192:23 193:3,5	142:2,10,17	laws 96:6 322:7
keep 6:8,8 23:20	250:17 261:22	194:12 195:4	207:9,12,18,24	324:21 329:23
37:11,20 38:4	261:24 262:1	195:18 196:12	214:11,15,22	330:6,12
46:25 47:4,7	364:11,15	198:23,23	215:10 245:10	lawsuit 16:22
132:10 334:9	knorrs 202:11	199:1,8 200:20	250:23 268:14	27:16 75:23
341:12	know 7:6 16:8	201:17 203:13	268:18,20	laying 43:11
kept 177:5 240:5	24:5 28:5,21	203:19,23	272:4	laypersons
kilometers	32:5,17 33:1,15	204:2 206:19	known 294:21	119:19
297:25 298:1	34:23,24 37:3,7	207:24 208:25	koch 96:5	lays 179:4
kimball 240:13	53:15 55:10	216:25 219:9	kyle 317:7 324:8	lead 23:23 176:5
240:14,15	59:20,24 60:1,5	219:13 222:4	329:15	181:5 182:14
287:22 288:1	60:10,11 63:7	228:15 229:6	329.13	247:22
288:20	66:11,18 71:22	229:16 231:5	L	leading 25:10,20
kimballs 288:15	77:9 79:17	232:24 243:24	lab 12:9	26:2
291:24		244:4,19	label 289:15	
kind 16:14 17:17	85:15 87:9,10	244:4,19	labeled 191:11	leads 181:2,2
30:23 33:15	92:16,16 93:13		301:15 322:10	leanings 319:12
43:13,14 52:17	93:23 94:1,5,6	260:21 274:1	329:10	320:6 323:5
73:19 74:20	94:13,24 96:7	274:19,21,25	labels 288:16	learn 29:22
87:25 90:7,9,21	98:13,14,24	282:9 283:4	labor 291:24	32:24 328:24
92:6 94:20,21	99:18 100:6	285:12 289:21	292:9 293:6,10	362:11,21
98:20 106:23	109:10 110:19	291:18,19	labs 16:2,7,10	learned 20:14,17
121:2 123:14	111:18,20	292:3,11 298:2	lack 59:13 162:1	30:2 32:8 326:3
121.2 123.14	114:10,14,16	298:10,14,23	236:14	learning 43:21
132:11 163:23	114:17 118:22	299:4,18	lacked 160:5	leave 75:22 115:9
222:2 233:15	120:17,18,19	301:17 305:18		156:19
	125:20 126:24	306:9,13,15,20	lacy 283:20	leaving 41:8
234:11 245:6	127:1 129:6	306:20,23	lakin 4:19	led 91:7 115:8
249:7 273:21	130:6 132:14	307:15,17	land 41:8	224:19,19
286:9 319:1,20	152:5,19 155:9	309:2 311:21	language 20:8	236:15 245:20
319:24 320:5	156:18 157:15	312:20,22	118:8 329:12	left 20:1 277:15
320:12 335:5	157:21 159:23	313:8,21	large 41:5 42:11	301:13 307:12
342:4 363:1	161:18 162:4,8	314:11 319:12	42:14,19 43:10	337:4
kinds 74:10 88:1	162:10 165:16	319:16 320:9	279:10 286:19	lefthand 88:3
92:6 125:21	166:13,18,24	324:4 326:18	351:12	legal 19:15,16,25
177:1 244:21	167:17 168:15	328:3,11,12,13	larger 58:10	19:25 21:17,19
276:24 291:14	170:19 171:16	328:15,16	87:16 115:6	22:16 23:4,12
knew 246:1	172:7,14,15,17	337:6,10,11	279:19 285:17	24:10,19,24
312:21	172:18,25	338:5 342:2,10	286:10,24	178:7 179:23
knorr 140:2,2,3	173:12 175:7	351:12 352:23	287:2,4,5	180:1 278:7
140:12,17,20	178:19 182:19	353:3,22,23	312:14	332:6
195:21 199:13	183:21,25	361:5,7	late 289:16	legible 246:22
200:24 201:4	184:3,17,20	knowing 175:12	law 20:4,6,6,10	legislation 180:3
201:13,16,18			20:10,11 22:2	
	I	I	l .	l ————————————————————————————————————

Case: 4:14-cv-02077-RWS Doc. #: 82-9 Filed: 09/30/15 Page: 122 of 155 PageID #: 1108

JONATHAN RODDEN, Ph.D. 8/20/2015

396

Fax: 314.644.1334

				390
legislature 29:21	242:25 243:7	320:2	351:17	90:4 91:2,13
30:19 32:6	243:14,21,22	likes 178:19	litigation 4:23	100:9 101:12
legislatures 2:13	296:25 297:5	limit 155:1 265:1	18:10 277:7	101:13 105:12
27:25 29:14	320:1	270:21 271:12	365:1	107:10,16
lengthy 309:15	levels 46:5,21	290:17	little 28:6 49:22	108:17 114:5
lentz 140:17,18	139:6,17 140:1	limitations 134:9	81:18 82:1	115:2 119:1
140:21 194:8	140:10,11,17	limited 253:12	83:12 88:1,2	121:9 122:3
201:16,18	141:11,18,25	281:6	114:7 122:10	123:7 124:11
202:4 203:7,13	142:10,16	limiting 153:10	124:4 125:4	125:25 127:16
204:2,3,4	143:1,8,11	265:12	128:19 134:3	127:17 128:22
lentzs 202:10	144:5,14 145:4	lin 4:19	163:9 171:16	131:20 132:10
leslie 212:20	145:12,19	line 52:13 104:5	190:4 200:25	132:12,23
213:10,15	146:6,13,18	105:13,20,20	228:6 233:18	135:10 136:18
229:13 230:19	147:4,13 148:3	109:4,5,6	274:25 289:16	137:7,19
230:23 231:12	148:4 175:20	114:24,25	300:15 309:18	138:16,25
231:15,22	176:2 184:24	152:3 170:20	319:16 332:5	139:12 140:6,9
233:1 253:3	185:6 207:9	200:7 266:5	335:3	141:21 142:6
letter 332:10,16	216:17 221:4	301:21 309:25	live 72:2 95:14	143:4,5,25
332:17,19,25	235:19 256:13	310:5 340:19	299:5,6	144:17,20
333:11	256:18 258:23	340:20,21,22	lives 96:4 299:12	145:3,10 146:2
level 12:22 26:24	281:15 283:9	340:23 345:23	299:12 324:15	153:15,22
26:24 27:2	283:10 292:13	346:1,4 367:5,7	living 108:11	154:5,6,11
31:11,12,14	292:22 296:21	367:9,11,13,15	323:16	155:5,24 156:3
46:15 51:4,23	297:13 351:4	367:17,19,21	local 10:22 11:2	157:4 160:3
51:24 55:21	lewis 331:3,5,15	367:23	15:14 17:12	165:11 166:25
56:7 59:5,13	liberal 317:23	linear 102:13	18:2 36:5 37:16	168:14 176:13
63:22 66:24	318:8 324:6	106:11 107:8	38:11 40:12	178:20 180:11
76:21 77:9	liberalleaning	111:13 113:20	located 324:22	180:16 186:25
97:12,13 117:4	323:11,17,22	114:4 117:9,13	logic 176:18	188:20 197:6
117:14 126:17	323:24	117:15 302:25	lone 188:7	199:11,25
141:1 167:5	libertarian 290:7	304:16 305:8	long 8:2 71:9	202:3 204:12
168:8,11 169:7	290:21	315:22 316:16	115:3,5 118:23	206:1 211:21
169:18 173:14	liberties 1:16 4:4	lines 42:24 76:3	240:21 241:15	212:18 214:3
174:7,16,23	4:8	76:10 83:16	334:10	215:17 218:5
175:3,3,5,21	lie 80:16 161:5	108:25 114:1	longer 41:20	230:1 233:23
184:1 189:18	197:20	116:25 156:22	62:19 283:1	234:12 236:7,9
193:20 196:8	lies 26:16 77:12	225:21 229:18	307:15	236:9 239:19
196:13 197:1,9	80:7 157:17	242:10 314:10	longform 61:10	239:23 241:13
199:7,10 201:5	161:1,13	lineup 224:17	103:4	241:17 244:3
201:8 211:9	185:25 186:6	list 25:13 246:4	longterm 194:21	247:11,23
215:24 216:22	189:23 190:22	lists 148:2,10,12	look 8:25 29:16	248:3 249:11
219:6 221:9,11	202:10 275:12	260:7	30:18 38:16	249:13,14
221:13 226:25	life 41:21 42:8,15	literature 16:16	52:13 73:25	259:20 260:15
227:3 230:24	42:20 43:4	28:24 35:24	78:19 80:21	264:17 265:2,6
231:23 232:1	lifetime 91:7	288:24 319:16	81:21 82:7	274:25 278:17
234:23 242:14	likelihood 312:23	319:23 351:12	85:14,15 87:25	285:23 286:13

				391
287:20 295:12	298:23 299:4	34:16 37:12,24	mailers 322:12	115:22 116:1
295:24 298:16	300:5 309:2,5	41:2,17,21,25	mailing 323:8	352:16
300:16 305:10	324:13 329:10	42:4,8,12,16,21	main 14:16 15:4	mark 67:18
308:21 315:6	335:16 340:13	42:25 43:3,4,8	15:4	81:11 99:22,23
321:13 324:13	344:18 355:25	43:16 45:16	majority 40:10	107:11 127:9
330:18 335:13	356:2	46:6,11,14,17	40:11 62:20	136:23 163:23
335:14 336:23	looks 62:17 84:4	46:19,22	101:20,23	237:20 238:14
336:23,24	105:15 111:24	238:11,12	102:1,4,7 111:9	272:9 287:8
337:13,21	123:12 139:1	239:20 240:15	111:14,20	316:23 320:25
342:13,15,20	148:23 150:10	284:15 296:4,6	112:11 113:12	336:12
345:16 346:8	170:16 266:3	296:7,18,23	150:1,4 177:2	marked 5:8 8:12
347:8 354:12	285:12 299:25	297:2,6,6,10,15	225:22 226:3	27:22 47:10
354:24 357:17	304:15	297:22 298:7	226:13,15	67:20 74:23
358:3 359:3,19	loop 217:17	365:2,7	271:1,18 282:3	75:7 81:13,16
359:24 360:10	272:2	louisiana 290:5	282:3 299:21	81:24 99:25
360:11,17	lose 256:3	low 35:4 117:4	306:12,15	107:13 127:12
looked 13:2 54:5	loss 223:23 224:2	167:10 299:1	313:1 315:11	128:3,17
76:1 86:9 98:22	225:16	351:14	315:19 316:8	136:25 164:3
119:20 127:3	losses 135:22	lower 91:16	316:14 346:24	232:23 237:23
153:17 173:12	222:11,13,20	153:15,19	347:2,6,13	238:17 239:19
197:25 277:5	224:20,24	154:11 156:1	351:20 353:14	259:13 260:3
278:10 280:18	225:1	157:5,10	354:20 355:4	272:11,12
313:20,23	lost 177:10	159:15,19,19	355:20 357:13	287:13 307:11
314:8 336:22	223:22 228:25	177:16 187:21	357:19	317:3 321:2
351:17	269:7 287:2,5	217:19 230:15	making 22:15	322:18 336:12
looking 12:14	308:15 361:20	287:22 288:2,6	34:7 123:22	336:18
31:16 34:25	lot 10:8,18,24	299:7,13 300:8	129:4 220:21	marks 98:11
47:22,25 54:6	16:8,22 20:14	300:21 314:13	241:9 242:3	marriage 313:21
66:12 77:20	26:13 27:1 32:8	323:18 351:18	292:16 293:2,6	314:9,13
79:2 83:11	41:5 42:11,14	352:24 353:1	293:11 302:10	married 315:15
86:25 87:25	42:19 61:5	353:21 355:11	343:21	marrying 314:10
91:15 96:13	76:23 79:18	356:1,4 358:23	manifestation	martinez 143:11
105:16 108:22	92:9,11 94:6,6	360:6,16	40:15	143:22 215:21
109:19 113:23	115:8,9 167:8	lowest 27:2 52:21	manuscript	215:25 216:8
118:19 123:2,6	180:4 232:2	153:20 202:9	13:25 14:4	216:14 263:4,7
123:25 130:4	233:12 239:15	231:22 351:15	29:11	mask 125:7
135:12 141:5	241:21 243:5	lowlevel 26:24	map 16:4 299:3,5	mass 41:7
144:8 145:22	279:7 312:19	lunch 127:23	299:8,25	match 74:20
156:14,21	341:5	128:1,2	300:12	matched 36:24
158:14 169:8	lots 12:19 122:12		mapped 10:1	material 16:11
185:5 193:19	284:25 300:13	M	mapping 16:22	24:16
202:8 222:7	louis 1:9,17 3:7,9	m 1:15 5:10 83:9	maps 298:20,23	materials 172:17
230:12 233:12	3:11 4:10,15,24	128:1 171:1	margin 269:8	237:15,25
244:20 259:5	15:15,21 16:9	259:11 307:24	271:20 360:23	matt 96:5
271:17 272:22	16:11,17 17:2	334:5 363:22	margins 57:21	matter 7:2 36:15
279:8 295:25	17:13 18:2	mailed 333:11	58:7,14,19	48:22,24 79:7
		mailer 333:8		
	1	ı	1	1

Case: 4:14-cv-02077-RWS Doc. #: 82-9 Filed: 09/30/15 Page: 124 of 155 PageID #: 1110

JONATHAN RODDEN, Ph.D. 8/20/2015

				• • •
				398
133:23 161:18	235:6 236:11	122:14,18	120:11 121:2	202:7 209:16
165:15,21	248:4,5 254:2,5	314:9 360:11	170:10 230:17	209:20 210:3
175:7 182:19	254:23 273:25	memory 6:3	294:22 295:5	212:21 213:6
297:24 298:2,3	274:14 289:4	54:16 295:22	324:2	213:10,11,16
321:7,17 331:4	299:17 311:21	mention 96:3	mine 17:9 35:16	213:10,11,10
344:8 365:12	313:8 314:3	292:25	274:17	213:16,17,23
365:18	337:20 342:2	mentioned 14:9	minimis 330:21	220:8 251:20
matters 94:5	352:25 362:14	14:10 45:14	minimis 550.21 minimizes 58:4	251:21 252:19
mayoral 48:21	362:24	85:24 86:19	minor 346:5	254:14,16,24
87:6,15 88:14	means 58:6	96:2 98:4 124:2	minorities 33:4	255:3,5,11,16
89:2,18,24,25	119:19 121:25	128:10 156:18	37:11,21 38:4	255:22,24
90:12,20 93:2	161:12,14	158:1 159:7	133:23 245:21	256:3,18 257:4
286:1	228:6 327:12	225:15 237:16	282:7 351:19	257:15,22
mca 330:24	362:16	281:12	361:24	258:18 259:16
331:1	meant 32:13 33:1	merely 316:2	minority 26:18	259:22 343:10
mccain 283:20	43:11 78:11	message 45:2	27:12 32:4	343:17 344:12
mcclendon 141:2	99:13 112:6	messy 299:3	126:25 176:17	345:5 355:1,2
204:15,19	144:13 151:12	met 7:23	182:8,20 183:1	356:8,11,21
205:6 250:17	200:7 211:22	methods 134:19	183:7,8 191:10	357:3,6,13,14
mccoy 3:9,10	measure 49:6	metro 15:15	209:8 224:11	357:19,20,23
97:2 241:19,20	50:11 54:19,21	17:13 18:2	225:3 259:21	358:5,19,20,24
mccoys 240:4	54:23 55:3 59:1	34:16 44:11	282:5 288:20	359:3,25 360:4
mcculloch 3:18	179:19 307:4	46:6,17,19,22	288:24 291:14	360:17,19
321:8,17	316:11	284:15 296:23	305:13 306:7	minus 347:5
mean 10:21	measuring 31:6	297:22	350:11 351:18	minute 174:3
11:11 25:5 29:5	55:2	metropolitan	356:15 359:15	228:3 247:24
30:16 32:1,22	media 92:10,22	45:16	360:2,6,20	248:1 333:21
33:8 35:8 38:2	95:11,17 98:6	michael 96:21	minorityprefer	338:22
43:6 46:16,25	237:13,17	97:24 99:6	132:18,22	minutes 47:8
55:24,25 59:23	238:23,25	114:18 132:19	133:3,4,13,17	127:21 307:17
60:20 69:11,13	239:3,8 240:12	mid 114:3	134:5,7,18,23	334:2
78:4 81:25 86:4	241:3,4,7	middecade 55:21	135:2,10,13	mis 86:3
88:20 105:12	243:11	61:12	136:7 138:1	misapprehended
108:21 112:22	median 77:6	middle 44:1,2,7,9	144:24 145:1	61:19
114:4 116:21	298:16 300:6,8	44:13,24 103:5	147:7 148:20	miscalculation
120:6,7,10	meet 7:18 8:2	170:20 223:12	149:2,3,8,16,24	362:24 363:1
123:2 131:5,15	meeting 8:4,8	midpoint 104:1	160:7 162:1	miscalculations
135:12 136:17	328:23,25	105:16 107:20	163:11 164:8	362:15
144:10 151:16	meets 15:6	107:20	165:5,9,14	mischaracteriz
157:15 160:19	member 113:10	midwest 4:23	166:19 167:1	16:18
165:23 171:8	113:11 294:20	365:1	177:10,14	misheard 233:11
176:23 177:5	295:1 337:9	mike 96:6	178:18,22	mismatch 39:19
207:1 208:19	351:2,4,9,11,14	mind 25:9 32:25	182:7,13,18	misread 240:19
209:13 212:13	351:19	33:13,20 68:4	183:9,11,16,25	misrepresent
218:24 230:10	members 32:4	77:18 79:17	184:18 191:11	23:17
231:4 232:7	40:1,16,19	97:10 98:10	191:13 195:3	misrepresentat
				_
	I	I	I	I

MIDWEST LITIGATION SERVICES Phone: 1.800.280.3376

Case: 4:14-cv-02077-RWS Doc. #: 82-9 Filed: 09/30/15 Page: 125 of 155 PageID #: 1111

JONATHAN RODDEN, Ph.D. 8/20/2015

				399
86:3	model 73:19	221:12,14,16	n 4:1 135:23,24	192:16 197:6
misrepresents	334:19 342:6,6	221:12,14,10	177:16 203:1	197:23 212:18
23:16	351:3	222:1,5,6,21	naacp 365:9	214:3 222:12
missed 23:9	moment 47:5	223:1 225:16	366:24 367:3	278:6 292:2
missing 25:15,15	63:8 65:9	225:22 226:8	name 5:19 95:7	293:17 299:18
281:8 316:12	126:15 158:25	235:16 251:4	95:20 96:5,5,6	313:19 327:10
362:19	229:5 243:4	269:11	171:22 291:10	337:6,7,21
missouri 1:1,3,16	249:25 293:18	morrises 143:17	321:9 366:10	338:5 340:8
, ,		mother 95:20	367:3,3	347:11
1:17,18,22,22	295:4 332:13		,	
4:9,10,15,24	money 61:6	move 41:7 44:18	names 25:12,16 137:14	needed 20:2
40:25 46:16	294:9	61:10 117:22		needs 19:3 21:21
59:10 67:25	moneysaving	134:10 200:13	narrative 41:1	23:23 72:5
68:21 69:9,13	61:10	240:11 316:22	41:14 43:7,11	200:13 278:6
69:19 70:3,7,8	monitors 321:25	moved 13:14	43:22,23,24	negative 165:6
70:10,23,25	monkey 34:19	44:9	44:22 45:8	neglect 330:21
71:19 72:8,13	monoracial	movement 44:2,5	nasty 93:4	neighborhood
364:4 365:2,7,9	280:24 281:2	moving 14:21	nathaniel 15:10	37:14 87:22
366:24 367:3	281:17	33:16 41:3	national 1:3,23	neighborhoods
misspeak 102:23	montana 3:17	muddy 19:10	16:13 96:20	28:18 41:4,9
misspoke 194:24	317:11,13,18	multiinstitution	97:22 98:9 99:5	300:13
294:1	318:7 320:15	325:17	318:1	neither 38:20
misstating 79:25	320:17,21,22	multiinstitutio	nations 25:10	108:10 141:4,8
mistake 149:6	321:7,13,20,24	325:13,20	26:1	141:22 205:3
mistaken 190:7	322:1,12,14,19	329:1	nativeamericans	207:5 208:22
misunderstand	322:22 324:15	multimember	110:6	209:15 210:2
46:4	324:17 327:2	129:24	nature 331:2	217:13 303:14
misunderstand	328:21 329:7	multiple 11:12	nearby 132:11	310:18 364:11
190:14 300:2	329:13,23	254:10 326:6	nearly 44:10	network 92:12
326:1 329:4	330:6,12	multirace 306:10	77:17 114:25	94:15,18
misunderstand	331:10,12,18	312:10,14,16	necessarily 123:8	networks 92:7
325:13	331:23,24	multiseat 133:14	191:17	never 84:20 85:3
misunderstood	332:2,9,11,12	225:4	necessary 66:23	117:12,15,21
61:23 326:5	333:7,11,19	multiwinner	71:10 117:14	179:17 295:2,3
347:23 349:16	347:25 348:3	162:15 278:21	224:21 329:2	295:9,17
misused 32:23	montanans	municipal 10:22	366:7	361:20
mit 8:20,23	324:16	35:3 37:15	need 21:18 23:21	new 4:5,5 41:6,7
mitt 317:24	montanas 322:6	38:10,23 39:15	25:12 30:10	163:17 191:5
318:9	months 14:5	39:20 98:8	43:24 49:22	348:22
mix 74:20	morie 199:13	municipalities	54:16 55:10	news 92:10
mixed 307:1	morning 5:17,18	286:1 296:6,17	57:22 58:5	newspapers 29:2
313:4,8 314:3,4	242:18	296:22,22	59:24 60:1,2	nice 53:24 93:23
315:23 316:18	morris 143:12,17	297:1,14	66:18 98:14	nine 181:23
362:5	143:18,22	municipality	99:18 108:17	249:4 250:21
moccr 4:22	144:6,15,21	286:4	110:11 120:18	253:9,12,15
364:22 365:21	146:19 218:18	mutual 236:12	126:13 127:8	255:2,9,14,14
mockup 327:13	219:6,22		133:9 192:16	310:5 346:3
_		N		
	I	I	I	I

MIDWEST LITIGATION SERVICES Phone: 1.800.280.3376

Case: 4:14-cv-02077-RWS Doc. #: 82-9 Filed: 09/30/15 Page: 126 of 155 PageID #: 1112

JONATHAN RODDEN, Ph.D. 8/20/2015

				400
nods 6:13	noting 226:12	358:10,10	obligated 224:12	38:18 53:22
nonafricaname	noting 220.12 notion 33:13	360:24 363:11	obliged 225:3	70:5 79:9,13
274:9	noun 240:10	363:12	obscene 93:25	82:16 109:18
nonblack 126:8	noun 240.10 november 2:17	numbers 44:8,10	observation	123:2 130:20
nonbiack 120.8 nonhispanic 2:20	36:20 68:22	56:7 58:7 60:2	103:1	131:10 144:11
nonincumbent	69:6	74:21 109:10	observe 180:10	151:10 144:11
284:9 285:5	number 3:22 9:1	110:11 122:12	observed 29:23	161:9 173:19
nonlawyer 281:6	9:4 12:25 15:25	150:5 184:25	36:18	188:1,2 194:23
nonlinear 52:17	16:9,18 43:9,10	188:21 236:7	obtain 328:20	196:4,19
nonlinearity	43:13 53:3,11	244:13,21	329:6	200:13 229:15
52:15	53:12,15,16	260:14 261:21	obtained 103:2	273:9 308:16
nonnovember	54:13 59:20,21	266:13 273:5	obvious 87:15	309:19 336:7
35:9	60:8 69:13	274:18 275:6	337:17,18	338:18 349:10
nonpartisan	70:13,14 90:5	275:13,14	obviously 6:3	349:12
289:1,3 317:14	95:11 109:11	278:22 309:10	occasion 102:7	okay 6:9,15 7:5,5
320:6	109:12,14	309:13 335:14	occur 74:24 75:3	7:9,22 8:8,11
nonsampling	111:18 131:22	344:15 345:18	75:4,13,17	8:16 9:16 10:13
57:24	135:3,13 137:4	345:18 352:4,8	115:10	14:17 18:6,20
nonwhites	137:25 139:4	352:16,24	occurred 93:7	18:23 21:2,10
315:15	137.23 139.4	353:3,5,8,9	331:3	23:1 25:9 26:17
norm 120:4	148:12 150:19	numerical 81:20	offcycle 35:4,8	27:10 28:7 29:8
				31:2 33:19
121:8,12	151:5,12	120:11 121:2 127:18 128:8	35:11,14,22	34:18 35:10
325:19,22	153:19,21 164:23 177:8	156:25	36:2,10,16,22	37:8 38:13
normative 225:5 225:12	182:1 186:11	130:23	37:9,20 38:3 288:10	
north 4:23 16:19	191:18,18	0	offer 19:16 21:17	39:23,25 40:23 42:2,19 46:3,20
37:12 38:11,14	· · · · · · · · · · · · · · · · · · ·	o 1:17 4:22 5:3	213:3	47:9,21 48:7
43:16 44:20	203:5,5,6,6 211:17 213:9	364:3 365:20	offered 47:12	49:3,18 50:17
296:5,17,21	217:15 226:16	oath 6:18 18:15	91:6	50:22 52:22
, ,	246:8 251:19	47:18 298:13		
297:1,5,9,13 notarized 365:16	252:24 253:22	obama 284:1,25	offering 24:9,19 24:23	53:20 54:7,12 55:9 56:20 57:8
	252.24 253.22 255:10 277:19	317:24 318:9	office 91:9 150:8	
notary 1:20 5:4		obamahillary		57:16 58:21
364:5,20	277:20 284:3	283:19	212:8,10 245:16 252:24	59:8,19 62:4,6
365:15 366:20 note 171:4 172:4	290:17 292:3,8	obamajohn		62:21 63:1,3,12
	306:13,14,25	283:20	253:3 289:23	63:25 64:3,16
208:13 212:20	310:5,7,8,13,14	object 7:1 23:15	294:6,14	65:10,21 66:3
309:16	310:15 312:20	164:21 179:13	officers 37:14	66:10,17 67:2
noted 240:3	312:21 316:24	184:17 185:13	offices 1:15	67:13 68:20,21
289:4	334:19,20	186:16 244:5	276:22 277:6	70:17 71:24
notes 40:1 96:10 333:23	337:3 345:8,9	objected 155:9	279:18 280:4	72:1,15 74:18 77:19 78:4 80:9
	345:12,13,24	objection 166:1	318:19 319:3	
notice 16:18	345:25 346:2,3	184:8	official 315:18	81:24 82:3,9,25
72:19 114:22	346:15 347:8	objective 176:3	320:14,21	83:4,7,18,25
114:24 274:17	347:16 348:24	259:24	331:24	85:7 86:6,25
notified 329:1	349:25 350:4	objectively 217:5	offsetting 323:4	89:11 91:2,12
348:1	351:25 353:18	objects 330:2	oh 30:17 34:7,23	95:19,23 96:13
		objects 330.2		

MIDWEST LITIGATION SERVICES Phone: 1.800.280.3376

Case: 4:14-cv-02077-RWS Doc. #: 82-9 Filed: 09/30/15 Page: 127 of 155 PageID #: 1113

JONATHAN RODDEN, Ph.D. 8/20/2015

				401
06.25.00.21	100 6 11 20	25 6 25 257 10	250 25 252 24	41 10 221 25
96:25 99:21	188:6,11,20	256:25 257:10	350:25 353:24	41:10 221:25
100:3 101:2	190:1,16,21	257:11,17,18	356:5,19 357:1	307:5
103:18 104:6	191:16 192:19	257:21 260:12	359:2,11	opposed 74:14
105:22 106:3	192:20,20,21	260:20 261:5	363:15,18	168:17 253:17
106:14 107:10	193:9,23	261:13,21	old 37:25 87:23	291:16 299:6
107:19 109:18	194:16 195:2,8	262:11,19	88:4	299:13 313:11
110:21 111:5	195:11,24	263:10,12	older 253:17	314:25 315:1
112:2,9 113:23	196:7,12 197:8	264:9,17	oncycle 36:24	323:24 332:23
115:21 117:22	197:13 198:12	265:25 266:4	ones 74:11 75:21	351:5,10
120:10 124:14	198:23 199:4	266:12,21	98:12 171:14	357:25
124:20 125:25	199:15,24	267:12,20	172:6 188:18	opposite 77:23
127:9 128:17	200:9,13,17	268:22 269:9	238:21,24	122:15
128:24 129:3	201:1,12	269:25 270:9	253:17 281:17	opposition
129:11,23	202:12,14	270:17 271:11	324:6	208:15
131:2 132:10	203:10,16	271:12,23	oneseventh 338:2	option 215:15
132:17 134:12	204:8,12,21,25	272:1,8 274:4	onethird 159:16	options 163:19
134:14,16	205:9,19,23	275:11,16	338:2	oranges 104:15
136:3,14,20	206:1 207:8	276:15 280:6	oneyear 60:22	order 24:5 28:10
137:5,6,24,25	208:7 209:9,19	281:20,25	112:23,24	30:11,13 45:23
139:4,23 140:9	209:21 210:12	283:24 284:8	ongoing 14:14	45:23 51:25
141:7,24 142:6	210:19 212:6	297:12 298:14	onward 107:8	53:23 59:6
142:15,22	214:5,14,20,25	298:14 301:19	open 18:12	66:19 67:25
144:4,24	215:5 216:8,16	304:3,10,25	291:11 332:10	102:20 110:9
145:10 146:10	217:4 218:20	305:18,24	openmindedness	120:17 132:5
147:20 148:1	219:5,13,21	306:5 308:3,10	320:12	138:8 142:19
148:19 149:7	220:13 221:3,9	308:23 309:3	operate 76:24	145:5,13,20
149:11,15	223:18 226:12	311:18 312:9	336:1	191:12 215:9
151:14 152:18	226:19 227:17	315:17 316:22	opine 38:9 80:13	224:10 225:2
152:22 153:15	228:6,10,15	317:11,12	opinion 19:15,16	294:9 335:7
154:4,14 155:8	229:11,17	318:5,12	22:21 23:13	337:6 346:23
158:8,20,24	230:18 231:3,8	320:14,24	24:10,19,23,24	347:12
160:3 161:22	231:14,25	321:17 322:9	30:7 35:13,21	org 4:7,7,11
162:4 163:15	233:17,23	329:5,9,19	35:23,25 36:7	organized 37:12
163:21 166:23	234:14,18	330:3,18	37:19 39:12	origin 2:16
167:17,20	235:15,23	333:21 334:9	41:16,18,22,23	332:19
168:7 169:10	236:7 237:4,18	334:10,15	48:7,13,22,23	original 3:24
170:10,15,23	238:5,14	335:2,13	50:8,18 51:2,7	365:12
171:13 173:11	239:19 241:2,7	336:11,17	51:11,19 62:18	originally 283:22
178:11 179:12	244:3,10 245:9	337:2,19 338:7	62:20 63:1,3,8	ormsby 2:4 4:14
179:17,22	245:18 246:18	338:15 341:11	95:9 162:12	4:16 8:13 23:15
180:20 181:4,8	247:7,23 248:1	341:20 342:13	180:9 224:10	47:2 67:21
181:20 182:24	248:3,19	342:19 345:11	225:8 232:15	83:15 100:11
183:19 184:24	249:11 250:3,7	345:16 347:21	278:7 319:18	100:14 109:3
185:4,13 186:4	251:23 252:15	347:23,24	320:4 321:11	109:17 137:1
186:14,21,25	252:23 253:8	348:18,21	opportunity	143:14,16,19
187:4,10,14	254:10 256:12	349:21 350:19	26:19 27:13	144:9,12,19
		_		
		-	Ţ	I

MIDWEST LITIGATION SERVICES Phone: 1.800.280.3376

				402
178:9 184:7	overall 13:23	77:19,20 83:10	346:16	111:25 112:13
187:17,20,24	54:6 60:15	85:8 91:2 96:13	papers 11:15	117:25 133:16
188:12,16,19	147:20 255:15	96:15 100:9,17	14:14 15:9,12	229:24 230:3
200:3,11,14	264:17 270:17	101:13 107:24	15:13 288:4	236:17 237:1,6
201:24 202:2	286:18 306:21	101:13 107:24	paragraph 31:16	237:10 238:20
201.24 202.2 202:12,14,17	311:11,13	113:23 117:22	31:17 34:25	239:11 241:10
202.12,14,17	312:20,22,24	119:1,25 125:6	38:16,19 40:1	242:4 299:24
259:7 283:23	316:3 340:10	125:25 132:13	40:24 53:9	303:25 304:5
307:20 308:14	359:19 362:18	134:21 137:19	77:20 83:11,16	305:20 306:1
308:19,22	overarching	138:25 158:14	85:7 86:3 91:3	306:16 307:2
309:1,4 333:24	11:16	160:3,4 229:4	96:14 97:22	310:6,20,25
334:1,8 348:12	overlap 79:15	229:13,15	119:25 125:6	310.0,20,23
348:22 349:6	160:8,17	233:23 236:9	132:14,17,22	312:3,6,14,16
	· ·	236:11 239:22	133:15 134:21	
349:10,12,15	285:22	236:11 239:22		313:10,18
351:24 352:9 353:0.25	overlapping	, ,	135:8,18 136:1	315:9,10,24 316:5 326:7
353:9,25	135:20 176:8 197:25	242:6,9 252:17 256:25 257:1	137:19 138:25	
363:18 365:6,8			140:6 141:5,21	347:12,12
365:10 366:22	overlaps 79:24	271:3 272:22	143:4,5,25	participate
ought 240:6	80:6 229:22	275:16 276:15	144:8,17,20	319:22
292:11	overwhelming	276:15 280:6	145:22 158:14	participated
outcome 33:17	44:8,24 53:24	287:20 288:14	161:17 171:3	91:24 94:10
33:25 277:21	62:25 286:23	293:13 295:24	173:7 212:14	participation
323:13 364:16	315:11	296:1 297:19	212:19,23	288:25 320:7
outcomes 32:5	overwhelmingly	298:16 300:4,4	220:7,10,24	particular 9:19
33:5,6 69:25	19:7 40:2,8	300:16 308:10	225:19 229:4	10:7,23 12:17
98:17 236:19	123:16 124:9	309:5 322:9	229:13,15	13:6,21 15:3
outgoing 93:22	124:15,25	324:13 328:2	233:24 236:10	16:19,24 17:2
94:4 96:18	313:17,18	329:9,19	236:10 238:7	17:15 21:18,18
236:14	ownership 41:24	330:18 334:16	239:23 241:14	22:22 37:24
outlet 17:17	42:3,7	349:5,18,20	242:6,9 252:18	39:9 45:10 79:5
outlier 94:19	P	365:13,15,17	257:1,7 272:23	87:23 92:17
99:16 124:1		366:22 367:5,7	272:24 275:16	130:12,14
outliers 90:8,9,24	p 4:1,1 128:1	367:9,11,13,15	287:21,21	157:17 256:10
92:3 95:3,4	143:18 146:18	367:17,19,21	291:23,23	258:13 265:14
outnumber	171:1 259:11	367:23	293:14 295:25	290:17 318:16
65:12 66:4,14	307:24 334:5	pages 100:1	297:4 300:5	319:3 320:8
101:8	363:22	108:25 229:14	324:14 330:19	particularly
outside 46:14,17	package 91:7	paid 243:5	333:6	19:24 75:5
46:22 88:18,18	93:23 94:3	pairs 36:24	paragraphs	parties 74:11
115:11 168:11	packages 93:24	paper 13:16	220:4 253:25	364:12,15
185:25 190:22	page 2:3,9 3:4,20	14:10,12,16	parents 236:15	partisan 28:10
197:20 200:23	31:15 34:18,25	15:6 27:17,21	parity 48:25 62:9	29:21 30:9,18
202:5 297:1,6	38:17,17,19	27:23 28:14	64:19 66:13,20	31:20 32:9,19
297:15	40:23 46:3	86:2 108:3	part 19:5,7,13,13	33:6,12,14,17
over18 311:10	47:21,22 49:10	164:17 179:4	19:21 50:2 87:5	33:23 284:19
312:24,25	49:12 52:8 53:9	185:1 341:25	105:9,11	284:23 288:16
	54:7,22 72:16			
	I	I	I	I

Case: 4:14-cv-02077-RWS Doc. #: 82-9 Filed: 09/30/15 Page: 129 of 155 PageID #: 1115

JONATHAN RODDEN, Ph.D. 8/20/2015

				403
200.21.25	76 22 00 10	77.10.12.101.4	242.22.252.4	165 10 166 14
288:21,25	76:22 90:10	77:10,13 101:4	342:22 353:4	165:19 166:14
289:3 290:19	94:18 179:7,18	102:1 111:10	359:21	167:6 221:7
291:15	192:24	111:17,22	percentage 33:4	225:13 292:15
partisanship	pen 108:3	112:1 119:4	52:24 57:14,16	295:3
12:24 14:2	penalty 6:20	121:18,20,23	60:3 62:1 64:18	personal 172:4
29:13 32:7	47:18 366:11	121:25 122:6,9	111:5 130:1,2,5	personality
317:19 319:1	pending 1:20	122:21 123:13	131:21 132:4,6	241:20
partners 317:16	pension 93:23,24	124:12,17	149:18,20	personally
parts 133:10	94:8	130:10,17,24	150:21 155:5	237:14
229:24 238:1	pensions 36:23	131:5,6,14,15	156:15 174:12	perused 237:15
party 28:23 29:3	people 1:4,24	149:22 150:20	189:6 193:16	ph 1:13 2:10,15
32:18 289:15	11:9 12:19	153:14 154:7	202:8 217:19	5:12 365:12
290:3,8,10,14	21:24 22:3,8,12	154:24 155:21	299:5,6,12	366:4,14,23
290:18,24	25:14 29:2	156:10 157:16	311:23 312:1,4	367:3
291:17	32:22 43:23	158:9 159:10	312:6,10,14	phenomenon
passage 133:14	44:5,9,19 60:12	159:13 168:24	313:9 316:18	44:25
pattern 90:3	64:1 68:2,22	169:8 173:16	340:18 346:17	phone 365:2
patterns 12:12	69:1 72:2 92:8	174:1,8,24	346:18,19	phrase 32:1,23
12:23 13:2,21	92:9,13 93:23	183:4,4,8,10	355:9,11	phrased 85:2
13:22 14:1,7	93:24 94:5,6,7	187:18 188:23	percentages	pick 15:24
16:1,4 25:6,7	94:7 95:19 96:7	189:4 193:24	312:12	picture 118:22
25:11 26:7,11	98:7 108:10	194:4 195:16	perfect 170:22	120:13
90:13 118:1	109:21 110:7	196:10 197:1,4	perfectly 61:21	piece 179:4 185:1
208:11 276:20	110:17,22	197:10,12,15	127:2 324:3	place 16:15
277:25 278:9	111:18 122:12	200:21 201:6	perform 232:11	26:15,15 27:5,6
351:1	172:2 233:5	202:3,5,5	performed	32:17 60:23
paul 221:21	240:5,9 241:22	203:20 204:19	282:24	73:3,10,25 74:4
paulette 251:12	243:5 289:22	205:10,10,14	performing	87:23 96:19
paulettethurm	302:21 303:12	206:5,7 207:12	50:22	115:11 205:13
146:7 234:19	303:14,25	207:13,16	performs 229:23	257:17 271:7
235:10 237:7	304:4 306:14	213:7 215:21	230:2	337:11 343:10
239:24 240:2	306:25 310:6,7	216:19 218:13	period 106:6,20	placed 103:5
241:9 270:1,4,7	310:23 311:14	218:13 219:7	115:3 118:23	318:2,7
pause 333:21	312:2 313:4	225:23 227:24	153:24 325:19	placement 319:7
pay 247:15	314:3 315:7,8	228:3 230:13	358:1,4 361:16	319:9
292:18	315:11 318:19	232:8,15,24,25	periodization	places 13:5 36:22
peer 30:12,13,15	318:23 325:22	233:7 234:19	151:24 153:18	36:23 44:23
30:21 81:8	337:22 346:23	234:20,21	perjury 6:20	45:20 88:5
89:12,21 90:23	346:23 353:13	235:16,17,17	47:18 366:11	121:22,25
116:12 157:21	362:4	245:8 248:12	permission	122:4 123:13
peerreviewed 9:1	percent 14:11	248:25 249:9	320:20	plain 20:8 180:2
13:11,14 14:7	49:7 55:10,11	252:20 253:10	perpetuate 296:4	plaintiffs 1:6,24
14:15,25 15:7	55:16 56:2	257:5,15,23	persily 15:10	2:8 3:3 4:3 5:2
17:12,16,20,25	57:13 63:9,15	282:7 293:15	person 158:23	5:13 7:14 19:5
26:5,12 27:10	65:22 68:3,24	293:23 294:12	160:25 161:6	100:4 123:11
27:17,18 30:19	69:2 76:18,20	305:14 322:21	161:10,20	272:19 346:7
27.17,10 30.17	07.2 /0.10,20	JUJ.17 J22,21	101.10,20	212.17 370.1

MIDWEST LITIGATION SERVICES Phone: 1.800.280.3376

Case: 4:14-cv-02077-RWS Doc. #: 82-9 Filed: 09/30/15 Page: 130 of 155 PageID #: 1116

JONATHAN RODDEN, Ph.D. 8/20/2015

				404
1 2-22 22-24	100.0 12	241,21,21,21	0.17.20.22.0.5	C5.15 C0.10 17
plan 3:23 23:24 334:24 335:8	128:8,13 132:25 133:7	341:21,21,21	8:17,20,23 9:5	65:15 68:12,17
		341:21,21,22	9:10,14,17,19	71:5 85:25
335:15,15	133:16 134:15	341:22,22	9:21 10:4,11,20	86:20,21 87:17
341:14 349:1	135:4,15,17	346:5,7 352:20	11:1,5,18,20,24	97:15 100:18
350:14 351:4,5	136:9,19 137:3	352:25 353:1,9	12:17 13:17,18	100:23 101:4,9
planned 308:24	137:11 138:3,7	353:16 356:22	13:23 14:10	101:15,20
plans 31:19,22	139:16 144:25	356:22,24	15:11 17:22	103:3 104:8,25
335:1 350:10	145:24 147:9	357:5,12,18	18:1 20:8 25:21	105:5,24 106:4
350:21 351:19	148:12,21	358:18 359:6	26:2 27:24	106:9,9,17,19
plausible 313:25	149:17,25	359:16	28:24 30:7 35:1	107:2,24 108:7
314:7 361:23	152:2 153:2,20	pointed 38:22	35:13,21 37:19	109:21 110:10
play 41:20 42:8	158:1,8 160:21	60:16	39:12 51:19	110:23 111:1,6
42:15 43:4	161:1,5,7,13	pointing 162:16	57:8 71:22 74:9	111:15,23,25
played 224:18	165:1,12 167:2	162:24 182:4	76:22 81:8	112:8,11,19
playing 202:22	169:11 175:3	203:7 234:12	94:17 116:12	113:6,12,17,24
please 24:14	175:16 180:10	275:18	131:25 157:23	115:1,12,14
76:14 178:11	181:6,8 182:13	points 69:7 70:8	162:12 179:11	116:8 117:5,20
201:25 293:18	185:24 186:6	82:18,22	192:25 259:25	119:4,13,21
309:4 334:15	187:5 189:20	150:21 153:22	260:11 274:1	121:18,23
334:17 336:13	189:23 190:21	155:5 156:15	278:15 281:6	122:5,9 225:24
342:13 365:11	193:6,14,15,17	174:12 189:6	281:14 284:14	243:22 298:21
365:14,16	193:19 194:2,7	193:16 217:19	319:10 321:7	299:16 301:16
plot 52:12,21	195:19 196:2	341:13	321:12,24	301:22 302:21
88:3	197:19 198:1,7	polarization	325:3,9 331:10	303:9,18 304:5
plots 87:25 88:1	198:16 202:10	15:11 25:3,4,5	356:7,20	304:14 305:2,7
273:11	202:23 203:4	25:7 99:11,12	357:11 358:17	305:11,13,14
plotted 103:10	206:14 207:18	99:14 234:6,7	politicians 29:14	306:8,21,25
plugging 59:5	209:21,22	244:1 281:3,15	politics 15:15	307:1 309:7,21
plurality 102:3,4	210:4,9 211:2	281:18,21	17:12 18:2 96:8	310:1,8,18,24
102:6	212:1,4,7,14,22	282:11	240:16 351:16	311:9,10,11,13
plus 102:1	213:18,23	polarized 25:11	polls 66:7 240:11	311:13,19,21
111:10 341:15	214:14 217:18	25:22 26:3,7,10	pool 290:18	311:22 312:4
341:15,15,15	220:2,4,11,13	118:3,6,13	popular 43:10,10	312:21,22,22
341:16,16,16	220:18,23	120:17 179:19	294:20 295:1	312:24,24,25
point 2:24 14:23	221:6 227:18	233:25 234:5,9	population 2:20	313:1 315:20
15:17 16:12	230:25 231:5	234:9,10,13,14	31:4,6 39:19	316:3,5,9,15
45:18 60:3	231:11,19	236:19 244:1	40:10 44:15,17	347:3,13
70:19 76:7 77:4	232:5 249:13	277:13 278:9	45:3 49:8 52:25	351:23 352:13
77:5,14 78:5	251:21,24	278:17 279:25	55:10,11,12,16	353:14 361:8
80:7,10,10,15	252:11 254:15	280:2	55:17 56:2,2,15	362:19,23
80:21,25,25	254:22 255:4	polarizing	56:15 57:3,13	363:2,7,13
81:6 82:10,14	255:12 256:15	236:18,22	57:18 59:1 60:6	pose 170:21
85:8,14,17,19	256:17 258:19	police 37:14	60:6,15,23,25	posed 7:7
86:9 102:17,18	259:17 275:1	38:24	61:3,16,17 62:5	positing 97:6
104:13 107:5	281:19 286:16	policy 292:13,22	62:6,11,19 63:5	position 21:17
114:3 124:21	295:13,18	political 2:11,12	63:9,16,23	61:14 103:5
	,	^		
		l	l	l

MIDWEST LITIGATION SERVICES Phone: 1.800.280.3376

				405
233:15 294:6	precinct 49:8	203:24 204:3	111:12 112:2,9	209:17,17
358:18	52:25 53:14	204:23 206:20	271:23 282:22	240:24 334:11
positive 119:12	55:12,17 56:3	208:21 210:10	303:21 304:11	336:12 342:21
119:18	56:16 63:22	210:17 211:3	306:17 316:17	primaries 285:1
possibilities	97:15 119:22	222:5,6 224:7	327:20	primarily 44:4
94:23	122:20 123:12	224:11,15,24	presenting 80:20	284:16
possible 23:20	123:18 226:15	225:2 229:8	102:16 105:5	primary 9:16,18
27:3 51:18 86:1	226:16 243:21	244:23 247:1	105:24 106:8	283:25 284:9
94:25 98:3	243:22 285:24	265:12 276:12	106:11,15	284:10 291:7,8
104:12 127:2	323:22	276:12 342:22	107:1,7,20	291:11
202:3 216:5	precinctlevel	345:12,24	119:2,9 127:18	principal 240:2
240:19 280:5	12:19 27:4	346:2 350:5,15	presents 100:10	principal 240.2
281:8 291:18	123:4 324:10	359:5,15	126:1 308:13	162:23 163:1
312:9,17,19	precincts 12:22	360:13 361:10	presidential	165:22 180:19
313:3 323:7	31:14 51:25	361:12,23	279:25 284:21	print 34:22 294:8
334:10	52:12 74:2	preferredcandi	285:6	print 34:22 294:8
post 2:13,13 3:7	119:5,7,14	254:23	presidents	printed 109:1
17:18,20 34:15	121:17 123:9	premarked	332:10,25	10:16 16:21
34:20,24 37:8	123:15 124:9	34:12	333:5	26:9 99:5
39:18 40:24		C		209:13 210:18
	124:11,16,17	preparation 8:1	press 43:10,11	
41:13 46:3,20	124:25 225:23	prepare 7:11,24	presumably	210:23 211:18
240:13 296:12	226:14 276:21	8:6	337:4	285:9 319:18
296:12,15,20	280:14 285:24	preparing 7:22	presume 224:20	327:2 365:17
postanalysis 90:9	323:3,11,13,17	presence 28:25	pretty 11:15,16	prizes 9:5
postcard 322:12	323:18,24,25	87:15	20:22 78:21	probably 22:11
postdispatch	324:6	present 4:19	105:21 116:11	94:7 115:14
238:11	precisely 276:24	32:20 52:17	232:16 327:12	124:24 202:17
potential 45:5	precision 77:10	70:9 72:20 73:8	prevail 150:2	241:4 274:18
245:20,20	predicted 342:6	74:25 94:24	prevent 41:3	307:17 309:1
351:3	predominantly	106:4,25	prevented	probative 118:7
potentially 181:2	226:13	113:15 116:7	221:23	118:12 253:16
350:10 363:10	prefer 44:11	116:13 153:5	prevents 120:15	258:9,13
363:11	123:19 307:19	154:17 155:11	282:5	277:10 278:5
poverty 44:6,22	307:20,21	210:15 242:22	previous 42:18	281:2,16
45:4 61:9 69:25	preferable 58:3	256:6 258:14	54:22 91:21	problem 38:20
72:3 300:25	preference 343:3	284:5 285:8	92:25 93:8	39:1,20,24
power 37:12,21	preferences 9:21	297:12 305:19	96:14 97:8,10	40:14 123:1
38:4 307:18	11:14 13:19,24	309:6 352:12	98:12 113:21	222:7 278:21
powerpoint	211:4	353:6	152:11 153:8	279:10 300:3
327:14	preferred 26:19	presentation	154:12 155:6	procedure 58:9
practice 116:12	27:13 162:14	101:14 104:11	156:8 209:13	326:5
322:7 329:23	162:20 164:14	106:23	236:11,11	procedures
330:6,12	167:24 176:17	presented 52:21	242:20 243:3	329:4
practices 42:20	187:11,22,25	72:7 75:14	281:5 296:1	proceed 129:7
321:7,12,24,25	188:3,5,13	102:12 106:6	327:13	proceedings
322:1 331:10	189:15 201:22	106:21 107:16	previously 5:8	332:9,18
	<u> </u>	1	1	<u> </u>

JONATHAN RODDEN, Ph.D. 8/20/2015

process 10:4 24:6 30:1 43:20 45:5 163:17 165:24 302:13,17,25 163:17 165:24 303:8 304:16 326:13 327:1 325:7,10,14,16 102:13 106:12 325:7,10,14,16 102:13 106:12 325:13,327:1 327:17,25 111:13 113:16 106:16 107:8 328:10 113:20 116:3,8					406
301:43:20.45:5 302:13,17.25 303:8 304:16 92:4 256:7 purports 349:25 323:17,10,14,16 326:13 327:1 106:16 107:8 106:16 107:8 327:17,25 328:10 116:38 178:15 237:24 332:16 1332:11 1332:16 116:38 178:15 237:24 332:16 179:113,16,18 302:1,5,8 305:8 302:1,5,8 305:8 302:1,5,8 305:8 302:15 327:14 produced 1:14 313:127:13,14 335:1 produced \$1:24 335:1 produced \$1:24 236:18 327:14 produced \$1:24 335:1 produced \$1:25 prominent 17:21 240:15 prominent 17:21 240:15 promounce 14:3:12 professors \$1:6 8:19.22 22:14 49:25 137:20 21:25 22:8 364:3 proportion 329:15 proportion 329:15 projection 14:3 329:15 projection 14:3 137:61,11,117 318:25 320:9 projection 14:3 137:61,11,117 318:25 320:9 320:18 321:12 322:12 333:19 projection 107:1 projectio	nroang 10:4 24:6	114.4 202.12	nnovido 24:2	200-21	quagtian 6:67
163:17 165:24 303:8 304:16 projections 232:11 324:17,20,21 325:7,10,14,16 326:13 327:1 106:16 107:8 111:13 113:16 328:10 113:20 116:3,8 178:15 237:24 282:12 297:7 317:17 362:17 produced 11:218 113:20 116:3,8 178:15 237:24 282:16 305:23 282:16 305:23 317:17 348:24 285:3 327:14 302:1,5,8 305:8 308:17 332:16 projectes 325:20 produced 1:14 335:1 projects 325:20 produced 1:14 236:18 327:14 335:1 projects 325:20 profer 167:4 professional 1:18 9:13 19:18,20 21:25 22:8 364:3 projectes 163:7 properties 163:7 properties 163:7 projectional 1:18 9:13 19:18,20 149:5 193:12 20:15 275:18 291:24 308:2 327:5 336:20 projected 14:3 30:15 363:20 projected 14:3 30:21 333:11 propostion 335:13 projected 18:5 projected 18:5 projected 18:5 projected 18:5 projected 310:14 projecting 331:16 348:3 projected 310:14 projecting 117:20 projecting 117:20 projection 107:1 provol 178:5 projection 107:1	-		_		_
324:17,20,21 325:7,10,14,16 102:13 106:12 317:17 362:17 337:17,348:24 24:14,18,19 24:1					
325:7,10,14,16 326:13 327:1 326:13 327:1 328:10 producet 112:18 113:20 116:3,8 produced 1:14 5:13 127:13,14 5:13 127:13,14 35:13 127:14 35:13 127:14 35:11 producet 353:20 producet 28:12 profer 167:4 professional 1:18 9:13 19:18,20 professor 8:16 8:19,22 22:14 49:25 137:20 149:5 193:12 202:15 275:18 291:24 308:2 291:25 22:14 49:25 137:20 professors 139:15 professors 139:15 professors 139:15 properties 163:7 proposition 330:17 89:14 properties 10:12 properties 10					,
326:13 327:1 106:16 107:8 111:13 113:16 13:20 116:3,8 178:15 237:24 28:216 305:23 123:3 331:15 60:9 61:20,23 61:24,25 64:4,2 67:8 70:1,3,19 70:9ceting 71:20 70:9ceting 70:9		1 0		1	' '
327:17,25 328:10 328:10 328:10 113:20 116:3,8 178:15 237:24 179:16:25 117:9 179:179:18 153:19 332:16 177:13,16,18 302:1.5,8 305:8 308:17 332:16 308:17 332:10 308:17 332:10 308:17 332:10 308:17 332:10 308:17 332:10 308:18 39:19 308:17 332:10 308:17 332:10 308:18 30:19 308:18 32:11 3					
328:10			1 -		,
produce 112:18 116:25 117:9 282:16 305:23 123:3 331:15 60:9 61:20,23 produced 1:14 5:13 127:13,14 315:22 316:16 308:17 332:16 purposes 51:21 61:24,25 64:4,9 5:13 127:13,14 315:22 316:16 provides 26:18 55:15 56:18 55:15 56:18 67:8 70:1,3,19 335:1 producet 28:12 prominent 17:21 363:13 57:9 75:5 78:24 67:8 70:1,3,19 producet 28:12 prominent 17:21 363:13 117:17,16 110:14 118:16 110:14 118:16 67:8 70:1,3,19 profesional 1:18 9:13 19:18,20 provincial 10:22 provincial 10:22 provincial 10:22 155:15 56:18 123:23 13:1 122:111:39 100:25 109:18 9:13 19:18,20 promouncing 144:12 provincial 10:22 provincial 10:22 150:12 155:18 123:25 124:7 100:15 118:16 146:22 100:18 118:18 123:25 124:7 170:21 175:15 126:19 133:12 126:19 133:12 126:19 133:12 126:19 133:12 127:11 13:9 166:15 122:1 161:4 165:7,22 170:21 175:15 170:21 175:15 170:21 175:15 27:11 45:1 53:24 209:13 20:16					
117:13,16,18 302:1,5,8 305:8 362:18 35:12 37:14 335:1 produced s 25:20 prod					
produced 1:14 302:1,5,8 305:8 362:18 362:18 55:15 56:18 64:10 65:21 5:13 127:13,14 302:1,5,8 305:8 362:18 provides 26:18 55:15 56:18 67:9 75:5 78:24 67:8 70:1,3,19 335:12 produces 153:20 prominent 17:21 363:13 103:16 106:23 71:4 80:1 profer 167:4 profersional 1:18 9:13 19:18,20 promounce providing 149:19 117:7,16 110:14 118:16 9:13 19:18,20 21:25 22:8 364:3 promouncing providing 149:19 117:7,16 110:14 118:16 100:25 109:18 9:13 19:18,20 promouncing 143:12 proxy 74:2 providing 149:19 117:7,16 110:14 118:16 16:22 120:18,20,25 120:18,2	-				
5:13 127:13,14 335:12 316:16 provides 26:18 57:9 75:5 78:24 67:8 70:1,3,19 335:1 projects 325:20 prominent 17:21 363:13 103:16 106:23 71:4 80:1 produces 153:20 prominent 17:21 363:13 112:21 113:9 100:25 109:18 professional 1:18 prominent 17:21 318:21 319:6 118:16 146:22 120:18,20,25 9:13 19:18,20 proponouncing 143:12 provy74:2 170:8,12 125:18 123:25 124:7 professor 8:16 8:19,22 22:14 49:25 137:20 340:11 364:20 365:15 214:22 170:21 175:15 8:19,22 22:14 49:25 137:20 351:13 proportional 366:20 214:22 170:21 175:15 8:19,22 23:14 proportional 366:20 66:10 66:24 27:14 5:1 5:324 209:13 210:16 202:15 275:18 propose 153:23 26:13 157:21 publication 74:20 86:2 27:14 45:1 5:324 209:13 210:16 317:6,11,11,17 318:25 30:9 355:13 proposed 181:5 publications 14:25 26:6 184:16,20 239:6 249:21 259:23 313:13					
236:18 327:14 335:1 produces 153:20 produces 153:20 profer 167:4 professional 1:18 9:13 19:18,20 21:25 22:8 364:3 professor 8:16 8:19,22 22:14 49:25 137:20 149:5 193:12 202:15 275:18 291:24 308:2 327:5 336:20 professors 329:15 professors 329:15 professors 329:15 projecti 14:3 337:6,11,11,17 318:25 320:9 projecti 14:3 337:6,11,11,17 318:25 320:9 320:18 321:21 322:12 324:15 325:14,18 326:11 327:2,7 328:21 329:2,7 331:12 332:9 332:12 333:19 projected 310:14 projected 310:14 projecting 117:20 projection 107:1 240:15 prominent 17:21 363:13 providing 149:19 providing 149:19 318:21 319:6 118:16 146:22 150:12 155:18 118:16 146:22 150:12 155:18 118:16 146:22 170:8,12 170:20 170:21 175:15 186:15 192:13 188:12 319:6 provincial 10:22 proxy 74:2 problic 1:20 3:9 33:12 332:1 340:11 proportional 335:13 propose 153:23 259:19 356:6 359:13 proposed 181:5 191:14 361:3 proposed 181:5 191:14 361:3 proposed 181:5 191:14 361:3 proposition 335:25 350:24 proposition 330:22 331:1,6 331:11 331:16 348:3 projected 310:14 projecting 117:20 projection 107:1 117:20 projection 107:1	•				
335:1	,		_		, ,
produces 153:20 product 28:12 profer 167:4 professional 1:18 240:15 promise 359:12 promise 359:12 promounce provincial 10:22 provincial 10:22 provincial 10:22 proxy 74:2 117:7,16 110:14 118:16 120:18,20,25 120:19,33:12 120:18,20,25					
product 28:12 profer 167:4 professional 1:18 professional 1:18 9:13 19:18,20 21:25 22:8 364:3 professor 8:16 8:19,22 22:14 49:25 137:20 proportion 149:5 193:12 202:15 275:18 291:24 308:2 327:5 336:20 professor 329:15 professor 329:15 professor 329:15 professor 329:15 professor 329:15 professor 329:15 professor 329:15 professor 329:15 professor 331:16,31,11,1,17 proposition 320:18 321:21 322:12 324:15 322:12 324:15 322:12 324:15 322:12 324:15 322:12 324:15 322:12 324:15 322:12 323:19 projection 107:1 projecting 117:20 projection 107:1 318:21 319:6 provincial 10:22 provincial 10:22 provincial 10:22 provincial 10:22 provincial 10:22 provincial 10:23 150:12 155:18 123:25 124:7 126:19 133:12 13:12 32:9 proportion 3:11 5:4 29:2 proportios 10:20 3:9 13:15 4:29:2 proportion 3:11 5:4 29:2 proportion 3:11 5:4 29:2 proportion 3:11 5:4 29:2 proportion 3:11 1 proposition 3:12 3:13 proposed 18:15 progress 14:1 proposition 3:12 3:13 3:12 3:29 3:12 3:33:19 projected 3:10:14 projecting 3:11 5:4 29:2 proposed 1:15:10 projection 107:1 projection 107:1 projection 107:1 propositor 178:5 318:21 319:6 provincial 10:22 provincial 10:22 provincial 10:22 provincial 10:22 provincial 10:22 provincial 10:23 1:25 124:7 126:19 133:12 1:20:18,20,25 12:20:19 13:12:20:18,20,25 12:20:19 13:20:18,20,25 12:20:19 13:20:18,20,25 12:20:19 13:20:18,20,25 12:20:19 13:20:18,20,25 12:20:19 13:20:18,20,25 12:20:19 13:20:18,20,25 1		_			
profer 167:4 professional 1:18 9:13 19:18,20 9:13 19:18,20 364:3 pronouncing 140:22 proxy 74:2 probe tile 1:20 3:9 3:11 5:4 29:2 19:215 208:20 170:21 175:15 16:4 165:7,22 170:21 175:15 16:4 165:7,22 170:21 175:15 170:21 175:15 170:21 175:15 170:21 175:15 170:21 175:15 170:21 170:21 175:15 170:21 1	-			117:7,16	110:14 118:16
professional 1:18 143:12 proxy 74:2 public 1:20 3:9 170:8,12 126:19 133:12 9:13 19:18,20 propouncing 140:2 public 1:20 3:9 364:15 192:13 166:15 192:13 161:4 165:7,22 364:3 properties 163:7 proportion 332:15 364:5 proportion 332:15 364:5 public 1:20 3:9 140:2 21:15 208:20 170:21 175:15	product 28:12	promise 359:12	318:21 319:6	118:16 146:22	120:18,20,25
9:13 19:18,20 21:25 22:8 364:3 pronouncing 140:2 properties 163:7 public 1:20 3:9 3:1 5:4 29:2 238:12 239:20 214:22 217:5 208:20 214:22 238:12 239:20 214:22 218:20 214:22 229:14 349:25 137:20 20:15 275:18 291:24 308:2 220:15 275:18 291:24 308:2 329:15 professors 329:15 professors 329:15 professors 329:15 professors 329:15 professors 329:15 project 14:3 317:6,11,11,17 318:25 320:9 320:18 321:21 322:12 324:15 325:14,18 326:11 327:2,7 331:12 332:9 332:12 333:19 projected 310:14 projecting 17:20 projection 107:1 pronouncing 140:2 3:9 23:15 24:2 23:15 208:20 214:22 218:15 208:20 214:22 22:18 223:13 19:2:15 208:20 214:22 22:18 223:13 22:15 364:5 27:1 45:1 53:24 209:13 210:16 66:24 211:20 222:9,9 20:13 210:16 66:24 211:20 222:9,9 20:13 210:16 66:24 222:18 223:13 223:15 224:25 22:18 223:13 223:15 224:25 22:18 223:13 223:15 224:25 22:18 223:13 22:25:15 223:18 223:15 224:25 22:18 223:13 22:25:15 223:25 224:25 22:18 223:13 22:21 329:27 335:19 proposition 335:25 350:24 proposition 325:14,18 326:11 327:2,7 331:12 332:9 332:12 333:19 projected 310:14 projecting 17:20 projection 107:1 promouncing 140:2 33:15 3:15 39:14 36:2 209:13 210:16 66:24 21:20 22:9,9 32:15 22:25 22:18 223:13 22:25:15 223:13 22:25:15 223:13 22:25:15 223:13 22:25:15 223:13 22:25:15 223:13 22:25:15 223:13 22:25:15 223:13 22:25:15 223:13 22:21 329:27 33:19 23:11 32:22 33:19 30:19 32:13 33:19 32:13 33:19 32:13 33:19 32:13 33:19 32:13 33:19 32:13 33:19 32:13 33:19 32:13 33:19 32:13 33:19 32:13 33:19 32:13 33:19 32:13 33:19 32:13 33:11 32:16 348:3 32:12 333:19 32:12 333:19 32:13 33:19 32:13 33:11 32:16 348:3 32:12 333:19 32:12 333:19 32:13 33:11 32:16 348:3 32:12 333:19 32:12 333:19 32:12 333:19 32:12 333:19 32:13 33:13 32:13 33:13 32:13 33:13 32:13 33:13 32:13 33:13 32:13 33:13 32:13 33:13 32:	profer 167:4	pronounce	provincial 10:22	150:12 155:18	123:25 124:7
21:25 22:8 364:3 properties 163:7 proportion 32:15 364:5 332:15 364:5 340:11 340:11 366:20 proportional 351:13 351:13 202:15 275:18 291:24 308:2 359:13 259:19 356:6 327:5 336:20 professors 329:15 proposed 181:5 proposed 181:3 330:18 321:21 320:18 321:21 330:12 330:19 proposecution 330:12 333:19 projected 310:14 projecting 115:10 projecting 117:20 projection 107:1 propositor projection 107:1 propositor propositor projection 107:1 propositor projection 107:1 propositor projection 107:1 proposition 115:00 projection 107:1 proposition 107:1 prop	professional 1:18	143:12	proxy 74:2	170:8,12	126:19 133:12
364:3 professor 8:16 proportion 332:15 364:5 214:22 pt 12:20 16:4,22 178:14 189:17 197:8 8:19,22 22:14 49:25 137:20 340:11 366:20 61:10 66:24 209:13 210:16 49:25 137:20 351:13 propose 153:23 26:13 157:21 104:13 118:18 209:13 210:16 202:15 275:18 propose 153:23 propose 153:23 26:13 157:21 104:13 118:18 223:15 224:25 291:24 308:2 259:19 356:6 publication 14:20 86:2 222:18 223:13 327:5 336:20 356:19 357:2 14:25 26:6 184:16,20 239:6 249:21 290:15 professors 359:13 proposed 181:5 proposition 318:6 publications 14:7 198:8 344:23 277:24 278:8 329:15 progress 14:1 proposition 335:25 350:24 proposition 30:19 published 9:1 13:17 15:7 20:4 266:5 253:23 257:10 277:24 278:8 278:15 279:13 288:24 293:21 288:24 293:21 295:23 313:13 31:12 34:26:5 26:12 27:17,18 23:12 23:12 32:12 333:19 331:16 348:3 28:2 publishing 16:12	9:13 19:18,20	pronouncing	public 1:20 3:9	186:15 192:13	161:4 165:7,22
professor 8:16 8:19,22 22:14 340:11 332:15 364:5 put 12:20 16:4,22 189:17 197:8 49:25 137:20 149:5 193:12 351:13 366:20 61:10 66:24 211:20 222:9,9 202:15 275:18 291:24 308:2 351:13 propose 153:23 26:13 157:21 104:13 118:18 223:15 224:25 291:24 308:2 356:19 357:2 14:25 26:6 184:16,20 239:6 249:21 297:15 359:13 27:11 200:4 266:5 239:6 249:21 297:14 331:2 238:19 282:1 335:25 350:24 335:13 200:4 266:5 277:24 278:8 317:6,11,11,17 318:25 320:9 335:19 282:1 335:19 282:1 335:19 282:1 335:19 282:1 238:19 282:1 17:12,24 26:5 19:25 22:21 229:23 313:13 325:14,18 326:11 327:2,7 331:12 332:9 330:22 331:1,6 28:2 19ullshing 16:12 19:25 22:21 36:21 34:23 36:22 1 36:22 1 36:22 1 36:22 1 36:22 1 36:22 1 36:22 1 36:22 1 36:22 1 36:22 1 36:22 1 36:21 32:22 29:19 36:22 1 36:22 1<	21:25 22:8	140:2	3:11 5:4 29:2	192:15 208:20	170:21 175:15
professor 8:16 8:19,22 22:14 340:11 332:15 364:5 put 12:20 16:4,22 189:17 197:8 49:25 137:20 149:5 193:12 351:13 366:20 61:10 66:24 211:20 222:9,9 202:15 275:18 propose 153:23 26:13 157:21 104:13 118:18 223:15 224:25 291:24 308:2 356:19 357:2 publication 183:20 184:7 225:1,5 233:8 329:15 professors 359:13 proposed 181:5 publications 14:7 183:20 184:7 225:1,5 233:8 329:15 proposed 181:5 proposed 181:5 publiclyavaila 318:6 publish 17:14,18 200:4 266:5 253:23 257:10 317:6,11,11,17 318:25 320:9 335:19 28:1 335:19 28:1 335:19 28:1 335:19 28:1 335:19 28:1 27:11 20:14 26:5 27:14 28:2 27:24 27:88 27:15 27:24 27:88 27:15 27:24 27:88 27:15 27:24 27:88 27:15 29:22 27:24 27:88 27:17 28:23 288:24 29:21 29:25:23 31:3:13 29:25:23 31:3:13 31:23 31:13 31:23 31:13 31:23 31:13 31:11 29:25 22:21 33:11 23:12 33:11 23:12 33:11 23:12	364:3	properties 163:7	238:12 239:20	214:22	178:14 189:17
8:19,22 22:14 49:25 137:20 149:5 193:12 202:15 275:18 291:24 308:2 327:5 336:20 356:19 357:2 329:15 professors 329:15 proposed 181:5 proposed 181:5 proposition 335:25 350:24 proposition 331:6,11,11,17 318:25 320:9 320:18 321:21 322:12 324:15 325:14,18 326:11 327:2,7 331:12 332:9 331:12 332:9 331:12 333:19 projected 310:14 projection 17:20 projection 107:1 8:19,22 22:14 340:21 366:20 publication 26:13 157:21 publications 14:7 14:25 26:6 27:11 26:13 157:21 publications 14:7 14:25 26:6 27:11 26:13 157:21 publications 14:7 14:25 26:6 27:11 26:13 157:21 publications 14:7 14:25 26:6 27:11 26:13 157:21 publications 14:7 14:25 26:6 27:11 200:4 266:5 putling 27:1 98:7 198:8 344:23 protypic 14:3 30:19 published 9:1 13:17 15:7 17:12,24 26:5 26:12 27:17,18 28:2 publishing 16:12 publishing	professor 8:16		332:15 364:5	put 12:20 16:4,22	189:17 197:8
49:25 137:20 proportional 366:20 61:10 66:24 21:20 222:9,9 149:5 193:12 202:15 275:18 291:24 308:2 259:19 356:6 26:13 157:21 104:13 118:18 223:15 224:25 291:24 308:2 356:19 357:2 356:19 357:2 14:25 26:6 184:16,20 239:6 249:21 329:15 proposed 181:5 proposed 181:5 proposing publications 14:7 183:20 184:7 225:1,5 233:8 329:15 proposed 181:5 19:14 36:3 proposing publichyvaila 200:4 266:5 27:24 278:8 317:6,11,11,17 38:25 320:9 355:25 350:24 proposition 90:19 230:11 30:19 95:4 288:24 293:21 320:18 321:21 323:19 29:21 331:12 332:9 331:11 26:12 27:17,18 28:2 23:12 23:12 331:13 30:22 331:1,6 30:17 89:14 qualitative 30:10 30:17 89:14 questioner s 2:1 questioner s 2:1 questioning 43:25 30:14,24 49:18 43:23 104:16 104:19 170:20 30:14,24 49:18 30:14,24 49:18 30:14,24 49:18 30:14,24 49:18 30:14,24 49:18 30:14,24 49:18 30:14,24 49:18 30:14,24 49:18 30:14,24 49:18 30:14,24 49:18 <td>•</td> <td></td> <td></td> <td>_ ·</td> <td></td>	•			_ ·	
149:5 193:12 202:15 275:18 propose 153:23 259:19 356:6 publications 14:7 14:25 26:6 184:16,20 239:6 249:21 200:4 266:5 publicy availa 200:4 266:5 253:23 257:10 200:4 266:5 253:23 257:10 200:4 266:5 200:4 2	,				
202:15 275:18 propose 153:23 26:13 157:21 104:13 118:18 223:15 224:25 291:24 308:2 356:19 357:2 356:19 357:2 14:25 26:6 184:16,20 239:6 249:21 professors 359:13 27:11 200:4 266:5 239:6 249:21 progress 14:1 proposed 181:5 191:14 361:3 proposed 181:5 publiclyavaila 198:8 344:23 278:15 279:13 project 14:3 335:25 350:24 proposition 90:19 230:11 30:19 95:4 288:24 293:21 329:13 32:12 238:19 282:1 17:12,24 26:5 19:25 22:21 234:4 342:16 320:14 327:27, 331:12 329:27, 331:12 330:22 331:1,6 28:2 publishing 16:12 13:17 15:7 19:25 22:21 350:12 36:1 331:16 348:3 prosecutor 334:12 publishing 16:12 130:17 89:14 qualitative questioners 2:1 30:14,24 49:18 222:11 purely 28:23 30:14,24 49:18 43:23 104:16 17:20 protocol 327:22 protocol 327:22 protocol 327:22 30:14,24 49:18 quantitatively 30:13 20:13 20:13					· ·
291:24 308:2 259:19 356:6 publications 14:7 183:20 184:7 225:1,5 233:8 327:5 336:20 356:19 357:2 356:19 357:2 14:25 26:6 27:11 200:4 266:5 253:23 257:10 329:15 proposed 181:5 191:14 361:3 publiclyavaila 318:6 putting 27:1 98:7 277:24 278:8 317:6,11,11,17 318:25 320:9 335:25 350:24 proposition 90:19 230:11 30:19 95:4 288:24 293:21 329:14 322:12 324:15 296:11,16 26:12 27:17,18 295:23 313:13 295:23 313:13 329:14 329:2,7 331:12 332:9 331:16 348:3 prosecutor 334:12 publishing 16:12 qualitative 30:10 36:221 329:12 333:19 protests 96:22 115:10 protests 96:22 pure 28:18 222:11 quantitatively 43:23 104:16 317:20 protocol 327:22 protocol 327:22 proteol 178:5 106:15,25 30:14 90:14 questions 5:16		propose 153:23	1 -		
327:5 336:20 356:19 357:2 14:25 26:6 200:4 266:5 239:6 249:21 professors 359:13 proposed 181:5 publiclyavaila 200:4 266:5 27:24 278:8 progress 14:1 proposing 318:6 publish 17:14,18 putting 27:1 98:7 277:24 278:8 317:6,11,11,17 335:25 350:24 proposition publish 17:14,18 puzzling 87:9 281:17 288:23 320:18 321:21 238:19 282:1 238:19 282:1 13:17 15:7 296:11,16 295:23 313:13 325:14,18 330:22 331:1,6 28:2 publishing 16:12 19:25 22:21 324:4 342:16 326:11 327:2,7 331:12 332:9 331:16 348:3 prosecutor 334:12 30:17 89:14 qualitative 30:10 36:221 332:12 333:19 projected 310:14 protests 96:22 punditry 40:25 pure 28:18 22:11 quantitatively 43:23 104:16 projecting 115:10 protocol 327:22 purely 28:23 30:14 89:1,13 43:23 104:16 projection 107:1 proven 178:5 106:15,25 90:14 30:14 9:14 43:23 104:16					
professors 359:13 27:11 200:4 266:5 253:23 257:10 progress 14:1 proposed 181:5 publiclyavaila 318:6 putting 27:1 98:7 277:24 278:8 profibiting 42:7 proposing 317:6,11,11,17 proposition 30:19 publish 17:14,18 puzzling 87:9 288:24 293:21 320:18 321:21 320:18 321:21 323:19 published 9:1 13:17 15:7 Qualified 19:22 295:23 313:13 320:18 321:21 325:14,18 prosecution 28:2 qualitative 30:10 30:17 89:14 30:12 362:1 321:12 332:9 331:12 332:9 331:16 348:3 profected 310:14 prosecutor 334:12 punditry 40:25 pure 28:18 222:11 quantitatively 43:23 104:16 104:19 170:20 projection 107:1 protocol 327:22 protocol 327:22 purely 28:23 30:14 89:1,13 questions 5:16			_		, and the second
329:15				, and the second	
progress 14:1 191:14 361:3 318:6 198:8 344:23 278:15 279:13 prohibiting 42:7 proposing 335:25 350:24 publish 17:14,18 puzzling 87:9 281:17 288:23 317:6,11,11,17 318:25 320:9 335:25 350:24 published 9:1 288:24 293:21 320:18 321:21 238:19 282:1 238:19 282:1 238:19 282:1 296:11,16 296:11,16 296:11,16 28:2 23:12 30:19 90:19 230:11 318:6 30:19 295:23 313:13 314:23 315:14 314:23 315:14 314:23 315:14 314:23 315:14 314:23 315:14 314:23 315:14 318:25 32:22 322:22 331:11 330:22 331:1,6 331:16 348:3 331:16 348:3 331:16 348:3 331:16 348:3 331:16 348:3 331:16 348:3 331:16 348:3 331:16 348:3 331:14 30:14 331:15:10 331:14 30:14 331:14 30:14 331:14 30:14 331:14 30:14 331:14 30:14 331:14 30:14 331:15:10 331:16 348:3 331:16 348:3 331:16 348:3 331:14 30:14 331:14 30:14 331:14 30:14 331:14 30:14 331:14 30:14 331:14 30:14 331:14 30:14 331:14 30:14	-				
prohibiting 42:7 project 14:3 project 14:3 proposing publish 17:14,18 puzzling 87:9 281:17 288:23 317:6,11,11,17 318:25 320:9 335:25 350:24 proposition 90:19 230:11 13:17 15:7 295:23 313:13 320:18 321:21 238:19 282:1 238:19 282:1 17:12,24 26:5 qualified 19:22 314:23 315:14 325:14,18 326:11 327:2,7 330:22 331:1,6 28:2 publishing 16:12 19:25 22:21 347:20 349:16 328:21 329:2,7 331:11 prosecutor 334:12 30:17 89:14 questioned 43:25 331:16 348:3 projected 310:14 protests 96:22 punditry 40:25 pure 28:18 22:11 quantitatively 43:23 104:16 17:20 protocol 327:22 protocol 327:22 purely 28:23 30:11 89:1,13 30:13 30:13 projection 107:1 proven 178:5 106:15,25 90:14 questions 5:16					
project 14:3 335:25 350:24 30:19 95:4 288:24 293:21 317:6,11,11,17 90:19 230:11 13:17 15:7 295:23 313:13 320:18 321:21 238:19 282:1 17:12,24 26:5 296:11,16 26:12 27:17,18 19:25 22:21 324:4 342:16 324:4 342:16 347:20 349:16 347:20 349:16 350:12 362:1 350:12 362:1 362:21 <	1 0				
This is a second of the projection Sign 1	•		·	_	
318:25 320:9 90:19 230:11 13:17 15:7 Q 314:23 315:14 320:18 321:21 238:19 282:1 296:11,16 26:12 27:17,18 19:25 22:21 347:20 349:16 325:14,18 330:22 331:1,6 28:2 23:12 347:20 349:16 328:21 329:2,7 331:11 331:16 348:3 publishing 16:12 qualitative 30:10 362:21 332:12 333:19 331:16 348:3 projected 310:14 331:16 348:3 puditry 40:25 23:22 29:19 quantitative 30:14,24 49:18 222:11 quantitatively 43:23 104:16 17:20 protocol 327:22 purely 28:23 30:11 89:1,13 320:13 projection 107:1 proven 178:5 106:15,25 90:14 questions 5:16				75.4	
320:18 321:21 238:19 282:1 17:12,24 26:5 qualified 19:22 324:4 342:16 322:12 324:15 296:11,16 26:12 27:17,18 19:25 22:21 347:20 349:16 325:14,18 330:22 331:1,6 28:2 publishing 16:12 qualitative 30:10 362:21 328:21 329:2,7 331:11 prosecutor 334:12 quantitative questioned 43:25 332:12 333:19 331:16 348:3 protests 96:22 punditry 40:25 23:22 29:19 quantitatively 43:23 104:16 17:20 protocol 327:22 protection 107:1 proven 178:5 106:15,25 30:11 89:1,13 320:13			_	0	
322:12 324:15 296:11,16 26:12 27:17,18 19:25 22:21 347:20 349:16 325:14,18 330:22 331:1,6 28:2 qualitative 30:10 350:12 362:1 328:21 329:2,7 331:11 prosecutor 334:12 30:17 89:14 questioned 43:25 331:12 332:9 331:16 348:3 projected 310:14 protests 96:22 punditry 40:25 23:22 29:19 questioning 43:23 104:16 104:19 170:20 projection 107:1 proven 178:5 106:15,25 30:14 30:11 89:1,13 320:13 questions 5:16					
325:14,18 prosecution 28:2 23:12 326:11 327:2,7 330:22 331:1,6 publishing 16:12 qualitative 30:10 362:21 328:21 329:2,7 331:11 prosecutor 334:12 quantitative questioned 43:25 332:12 333:19 331:16 348:3 profected 310:14 protests 96:22 punditry 40:25 23:22 29:19 questioners 2:1 projecting 115:10 protocol 327:22 purely 28:23 30:11 89:1,13 30:11 89:1,13 projection 107:1 proven 178:5 106:15,25 90:14 questions 5:16			· ·	_	
326:11 327:2,7 328:21 329:2,7 331:12 332:9 332:12 333:19 projected 310:14 projecting 117:20 projection 107:1 330:22 331:1,6 331:15 publishing 16:12 pull 209:19 334:12 punditry 40:25 punditry 40:25 pure 28:18 222:11 protectly 28:23 projection 107:1 362:21 qualitative 30:10 362:21 questioned 43:25 questioners 2:1 questioning 43:23 104:16 104:19 170:20 30:17 89:14 questioners 2:1 questioning 43:23 104:16 104:19 170:20 30:13 questions 5:16		,	· ·		
328:21 329:2,7 331:12 332:9 332:12 333:19 projected 310:14 projecting 117:20 projection 107:1 331:11 pull 209:19 334:12 punditry 40:25 pure 28:18 222:11 protectly 28:23 projection 107:1 30:17 89:14 quantitative 23:22 29:19 30:14,24 49:18 quantitatively 30:14,24 49:18 quantitatively 30:17 89:14 quantitative 23:22 29:19 30:14,24 49:18 quantitatively 30:17 89:14 questioned 43:25 questioners 2:1 questioning 43:23 104:16 104:19 170:20 30:17 89:14 questioned 43:25 questioners 2:1 questiones 5:16	*	_	= :		
331:12 332:9 332:12 333:19 projected 310:14 projecting 117:20 projection 107:1 projection 107:1 prosecutor 334:12 punditry 40:25 pure 28:18 222:11 purely 28:23 projection 107:1 punditry 40:25 pure 28:18 222:11 purely 28:23 projection 107:1 punditry 40:25 pure 28:18 222:11 purely 28:23 projection 107:1 punditry 40:25 pure 28:18 222:11 purely 28:23 projection 107:1 punditry 40:25 pure 28:18 222:11 purely 28:23 projection 107:1 punditry 40:25 pure 28:18 222:11 purely 28:23 projection 107:1 punditry 40:25 pure 28:18 23:22 29:19 30:14,24 49:18 104:19 170:20 320:13 questioned 13:25 questioned 13:25 questioners 2:1 questioners 2:1 questioners 2:1 questioners 3:1 questioners 2:1 questioners 3:1 questioners	· · · · · · · · · · · · · · · · · · ·			_	
332:12 333:19 projected 310:14 projecting 117:20 projection 107:1 projection 107:1 331:16 348:3 punditry 40:25 pure 28:18 222:11 purely 28:23 projection 107:1 23:22 29:19 30:14,24 49:18 quantitatively 30:11 89:1,13 90:14 questioning 43:23 104:16 104:19 170:20 320:13 questions 5:16			1 -		_
projected 310:14 protests 96:22 pure 28:18 30:14,24 49:18 43:23 104:16 projecting 117:20 protocol 327:22 purely 28:23 30:11 89:1,13 30:11 89:1,13 projection 107:1 proven 178:5 106:15,25 90:14 questions 5:16		_		-	
projecting 115:10 222:11 quantitatively 104:19 170:20 117:20 protocol 327:22 purely 28:23 30:11 89:1,13 320:13 projection 107:1 proven 178:5 106:15,25 90:14 questions 5:16					
117:20 protocol 327:22 purely 28:23 30: 11 89:1,13 320: 13 projection 107:1 proven 178:5 106:15,25 90:14 questions 5:16		_	_	· ·	
projection 107:1 proven 178:5 106:15,25 90:14 questions 5:16	2		· ·		
projection 107.1 proven 170.5 100.15,25 questions 5.10		_		· ·	
quarterly 2:11	projection 107:1	proven 178:5	106:15,25		questions 5:16
				quarterly 2:11	

MIDWEST LITIGATION SERVICES Phone: 1.800.280.3376

Case: 4:14-cv-02077-RWS Doc. #: 82-9 Filed: 09/30/15 Page: 133 of 155 PageID #: 1119

JONATHAN RODDEN, Ph.D. 8/20/2015

				407
c 12 25 10 10	241 10 10 22	277 12 279 0	260 4 12 16	265 14 266 5
6:12,25 10:19	241:10,18,22 241:22 242:3	277:12 278:9	360:4,13,16	365:14 366:5
13:19 15:25		278:17 279:25	361:10,11,14	367:6,8,10,12
82:5 83:5	243:21 246:11	280:2 296:7,17	361:15	367:14,16,18
128:24 171:3	273:13,14	radically 64:5	rates 2:17,18 3:6	367:20,22,24
185:2 188:14	281:11 282:12	312:24	48:1,6,8,13,18	reader 78:12,21
193:12 222:12	285:3 289:3	radio 3:9,11	49:14,19 50:9	80:21,23 89:24
224:23 252:16	306:11 307:1	238:12 239:20	50:18 51:12	90:6,7 92:4
274:20,21	311:6,15 313:4	rails 320:10	52:24 64:5,12	103:10 112:7
334:8 348:13	313:8 314:3,4	ran 28:9 171:4	64:18 66:19	232:3 299:18
348:16 351:22	315:7,12,23	171:12,14	67:3,10,14,23	readers 94:25
363:16	316:18 320:7,8	172:2 176:10	69:10,11,11,25	reading 239:15
quick 127:22	346:20 347:4,6	209:25 210:6	70:6 71:1 72:7	281:4 331:20
quickly 81:17	362:5	212:8,10	72:11,13 73:20	reads 37:9
333:23 348:19	races 75:12,14,16	213:17 230:19	74:1 75:19	135:19 236:12
quite 14:1 19:10	76:1 87:14	231:15 285:10	79:20 86:16	324:14 330:9
79:12 84:22,24	111:21 188:13	random 28:9	88:7 313:25	330:20
84:25 85:1,10	281:7 282:21	range 76:15	314:2,8,13,21	ready 129:6
90:5 127:3	283:12 284:24	77:14,17 202:4	raw 253:22	229:7 260:21
202:11 210:24	288:25 289:1	202:9 232:24	razors 198:6	301:18
216:24	310:6,24 312:2	233:7 353:3	209:3	reality 44:20
quo 37:15 38:25	312:5 315:8,9	rank 317:22	reached 14:23	45:7,14,15
quote 241:12	315:13 318:18	ranked 135:22	reaching 213:9	realize 90:17
quoted 328:9	racial 13:11 14:7	197:13 198:20	read 7:14 20:7	133:21 224:22
quoting 238:8	14:11 16:24	199:2,7 204:15	24:5,15,16	300:1 346:5
254:6	25:2,4,5,7	207:15 215:20	31:24 35:6	realized 278:24
	26:14 31:20	rankings 275:2	37:17 39:3 40:4	really 8:1 12:22
<u>R</u>	32:1,14,23	ranks 22:10	41:11 78:2 82:2	16:21 20:18
r 4:1 291:10	33:12,15,21	rate 49:24 68:1,2	83:23 85:12	32:7 33:13 45:6
race 2:16 12:15	38:22,24 39:5	68:23 69:2,6,15	91:10 95:17	45:11 52:19
12:21,24 14:2	39:13 42:24	70:7,9 114:11	96:23 102:22	64:6 87:9 88:5
14:18 15:2 27:5	83:21 94:4	114:21 115:3,4	125:11 128:19	90:6 92:9,13
33:17,24 47:23	96:16 99:11,12	115:13 150:22	133:19 135:25	93:14 94:8,9
48:1,6 88:21	99:14 130:12	153:13,16	160:13 180:2,4	170:17 176:1
97:15,15 110:7	130:14 157:17	154:24 155:25	225:25 234:2	179:13 222:9
111:16,17,19	176:11,12	156:10,13	236:20 238:23	237:2,12
111:23 112:10	234:6 277:21	159:25 204:5	239:14,17	273:22 279:10
113:11 117:24	278:23 281:3	206:21 218:17	240:1,20	286:21,22
125:7 126:18	281:15,18,20	245:6,25 249:7	252:21 253:10	294:22 333:23
126:18 134:1	282:10 296:21	255:15 264:18	257:6,7,11,13	336:22 348:19
176:10 191:19	297:13 314:10	265:3,7,9	257:25 275:22	356:5
214:18 215:11	314:12,22	270:17,22	276:6 296:2,8	reason 6:22
218:18 222:23	racially 25:10,22	285:12 294:24	322:15 324:24	16:19 28:14
232:23 236:17	26:3,6,10 118:2	300:21,25	326:16 329:17	35:18 36:12
236:25 237:6	118:6,13	301:5,10 356:1	329:20,25	38:6 71:3 72:24
237:10,16	120:17 179:19	358:4,23 359:2	331:7,21 333:9	79:11 87:9
238:19 239:11	236:18,22	359:8,9,19,25	335:4 341:19	132:21 134:10
240:10,18	,	, , - , -		
	l	l	l	l

MIDWEST LITIGATION SERVICES Phone: 1.800.280.3376

Case: 4:14-cv-02077-RWS Doc. #: 82-9 Filed: 09/30/15 Page: 134 of 155 PageID #: 1120

JONATHAN RODDEN, Ph.D. 8/20/2015

				408
	•		•	1
172:23 173:3	283:11 286:23	redditt 1:4	133:15 135:4	72:7,11,12
177:11,17	324:8,8 327:7	redirect 348:15	220:3,21 232:6	324:10 329:23
244:15 287:6	331:17	redistrict 59:10	236:23 237:2,5	330:7,12
287:25 288:19	receives 123:17	116:17	271:6 276:5	regret 279:4
311:16 323:4	131:14 230:13	redistricting	288:10 352:5	333:7
367:6,8,10,12	receiving 189:3	18:9,24 28:9	refers 255:7	rehearsed 43:8
367:14,16,18	216:18 232:24	31:9 33:24	reflect 40:13	43:12
367:20,22,24	recess 83:8 128:1	58:25 116:21	reflected 38:23	reinforced 95:17
reasonable 76:16	170:25 259:10	117:1,2,6,14,17	39:15 357:7	rejected 286:8
88:24 89:9	307:23 334:4	redlining 41:4,17	358:13	related 10:19
343:15 344:3,7	recipient 175:17	41:20	reflection 75:15	20:4 29:10 61:8
reasons 93:17	301:5	redo 88:10	reflects 38:25	240:18 244:8
112:14 223:18	recognize 34:12	reduced 364:10	reformatted 2:22	322:11 364:11
223:19,22	134:9 238:1	reelected 194:22	128:19	relates 222:14
327:4	272:12 287:18	294:6,10,19	reformoriented	relation 297:21
rebuttal 71:21	317:4	295:3	240:18	relationship
100:16	recollection 55:8	reelection 294:23	refresh 6:2 54:16	10:21 26:14
recall 18:17	110:4,8 126:22	reexamine 88:21	regarding 342:16	27:5 54:6 77:4
20:25 21:1	reconstruct	refer 34:2,4 82:6	349:7	88:21 90:11
57:14 88:12	239:1,16	99:13 129:1	regardless	95:3 340:10
96:7 137:18	record 5:20 6:8	132:11 133:17	190:12 256:18	relative 46:5
179:21 239:14	20:23 21:9	258:8 317:10	298:6 312:2	50:9 67:3,9
240:12 241:1	79:19 86:6 89:7	319:4	361:15	75:19 93:8
253:7 274:21	110:21 127:25	reference 56:20	regions 45:17	221:4 232:6
324:3,11	137:2,14	102:25 123:21	register 331:3	256:13 258:23
receive 45:2	138:11,13,23	123:22,24	registered 1:18	299:10 364:13
130:9,10,16	139:4,10,23	124:1,16	40:9 53:4,12,16	relatively 46:10
152:16 226:13	146:10 148:1	230:10 238:21	53:18 54:14,23	48:9,14 168:22
232:22 320:20	148:24 164:10	287:21 288:15	55:5 59:17,18	232:4 233:2,5,8
329:2 348:7	169:4 183:22	288:15 291:24	62:2 63:10,12	233:21 299:1
received 119:6	184:8,10,12	293:14 330:5	63:16,17,21,23	release 236:13
131:21 158:17	188:17 194:16	330:15,17	64:2,13,13,17	relevant 211:12
169:18 175:9	195:8,24	referenced	64:19 65:2,18	211:14 293:1
176:12 193:20	198:13 199:4	326:24	65:19,25 66:11	314:19
196:13 200:21	199:21 204:10	referred 21:24	68:23 69:2,12	reliability 9:9
201:12 207:9	204:25 205:6	79:1 239:10	70:12 71:6 72:4	relied 123:11
217:23 218:2	205:23 217:11	240:16 242:3	72:5 85:25	rely 89:13 94:17
218:16 219:10	218:21 219:2	321:10 325:6	322:13,19	237:25
221:10,19	272:1 273:16	331:4,14,16	364:3	remain 351:1
222:21 226:25	284:4 285:3	348:4	registering 166:1	remainder
234:23 245:23	286:17 308:5	referring 33:21	registration 2:16	168:23
245:24 266:22	329:5 331:21	33:22,23 34:16	64:5,12 65:6	remaining
267:4,13,20	333:22 354:2	40:14 71:20	66:19 67:3,10	158:21 199:12
268:4,15,22	356:5	91:25 97:1,21	67:14,23 68:1,2	201:16 234:25
269:9,17 270:1	recorded 362:22	123:20 124:10	68:9,14 69:6,15	235:20 305:18
270:10 280:13	red 52:21	126:7 130:13	70:6,7 71:25	remains 45:16
	1	1	1	1

MIDWEST LITIGATION SERVICES Phone: 1.800.280.3376

Case: 4:14-cv-02077-RWS Doc. #: 82-9 Filed: 09/30/15 Page: 135 of 155 PageID #: 1121

JONATHAN RODDEN, Ph.D. 8/20/2015

				40
remarkable	119:1,16 126:1	350:20 356:8	348:10	324:1 325:4,11
226:6,9	126:13 128:5	362:2,8	republican 32:18	327:2 351:8
remember 20:24	128:25 129:2	reported 2:15	32:19 284:11	researcher
21:9 48:3 53:8	132:14,22	4:21 52:20 58:8	284:20 285:4	326:14
54:5,6 85:2	132:14,22	59:4 98:20	289:7,8,10,23	researchers
89:8,10 105:10	134:3,21	266:9 310:19	290:7,13,20	326:8,15,23
126:11 158:4	136:17 137:20	reporter 1:18,19	republicans	329:22 330:11
212:16 213:14	139:1 141:5,22	1:20 5:4 6:3,12	289:14 290:22	330:16
238:25 239:3,8	143:5,6 144:1	24:17 163:25	291:6,9	reserved 5:6
239:17 283:21	145:23 149:1,8	316:25 336:15	request 81:20	residential 12:3
320:1 346:13	156:22 158:12	340:15 345:21	requested 24:16	12:6,8,10,14,23
346:14,17	160:4 161:16	364:1,4,4,5	required 19:12	13:2,3,20,21
remembering	162:18 173:8	reporting 77:17	21:16 27:3	14:2 38:21
54:5	178:13 180:3	81:6 92:10,23	32:21 67:7	residentially
removal 240:5	182:23 208:10	95:10 110:7	178:16	44:15
		111:19 237:13		
removed 61:7	208:13 212:13		requirement 19:8	residents 92:11
91:8	220:1 225:19	301:21 303:7		114:20
render 22:21	229:4 233:23	311:5,14	requirements	resignation
23:12 366:8	234:16 236:9	315:12 329:24	19:14 21:13	237:2 242:11
repeat 202:21	238:1,7,8 241:9	330:7,13	22:23 23:14	resigns 3:9,10
349:15	242:6,8,9	reports 7:13,14	178:8 179:23	resistance 296:3
repeated 43:12	252:15,17	7:23 45:13	180:1	respect 10:24
repeatedly 358:8	256:6,8 259:20	56:20 71:21	requires 26:23	19:24 21:19
rephrase 23:7,9	260:5 272:15	72:6,11 95:18	31:9	27:16 32:7
replaced 103:4	272:18,19	98:6 237:17	requiring 329:23	70:21 98:15,19
report 2:14,18	273:12 274:5	243:12 283:1	330:6,12	158:19 163:11
3:7,14,15,16	274:13 275:11	287:9 297:14	requisite 21:21	169:24 219:18
47:12,22,25	275:12,16,18	300:16	reread 7:13	265:22 279:25
48:20 49:5,10	276:20 277:5	represent 82:17	research 9:10,14	280:2
49:13,19,25	278:10 279:3,5	82:21 100:1	9:17,18 10:17	respective
51:21 52:11	280:6 282:16	112:22 138:1	11:5,20,22	275:13 283:9
53:6,14 54:3	287:14,18,20	305:1,6 322:21	13:11,13 14:21	283:10
65:24 66:18	293:13 295:25	352:20	17:8,10,12,15	respectively
67:4,7,8 69:17	297:19 300:5,6	representation	17:19 27:9,18	183:6
70:12 71:9,11	301:17 303:17	10:4 28:19	28:15 30:24	respond 272:19
72:16 77:16,20	303:19,22	58:22 134:24	35:1,24 36:15	responded 93:11
78:24 79:7 81:5	304:7,7,9	258:3 304:14	36:25 37:4,6,23	93:18
83:11 84:1	305:10,22,23	351:13	38:5,7 43:19	responding
90:14,15,16,18	307:8,8 308:1,2	represented	76:22 77:16	293:20
90:23 91:2 95:6	308:5,17	81:21 96:9	116:12,22	response 19:14
95:9 100:2,7,10	309:21,22,25	100:22 104:4	172:7 287:21	81:19 307:8
100:12,16,16	310:5,7,11	104:22 126:5	288:1,5,12,20	308:2
101:12,13	311:1 316:17	302:16 356:17	291:13,18,19	responses 103:7
112:5 113:10	331:3 334:12	represents 76:6	291:20 293:4,9	rest 151:11
113:24 115:25	335:24 337:21	107:8 300:6	317:6,10,17	356:11
117:23,25	349:4,5,7	reprimand 348:7	318:25 322:17	restrictive 41:4
,	, ,	•		

MIDWEST LITIGATION SERVICES Phone: 1.800.280.3376

Case: 4:14-cv-02077-RWS Doc. #: 82-9 Filed: 09/30/15 Page: 136 of 155 PageID #: 1122

JONATHAN RODDEN, Ph.D. 8/20/2015

				410
41:23 42:2,7	revisions 354:13	116:18,22	231:15,17	363:3
restroom 170:17	revisit 192:17	120:21 122:22	232:12 240:23	rights 11:11 18:7
170:22 307:22	344:17	122:25 123:1	241:5 243:8	18:18,21,25
result 169:22	revolt 91:7,24	123:21 124:8	244:6,12,18,22	19:8,14,18,19
182:17 243:15	92:20,24 93:6	124:10 125:11	245:5 246:5,6	19:20,21 20:9
246:15 288:4	93:20 94:11,15	129:20 130:6	247:2,4 248:4	20:14,19 21:14
320:2 323:3	rhetoric 44:21	130:13,20	248:12 249:9	21:25 22:1,9,23
331:12 332:8	rid 88:10	131:14,24	249:20 250:4,6	23:5,14 24:12
333:15 339:8	right 8:10,17,23	133:4 135:5	250:11,13,14	24:21 32:10,21
348:8	9:6 14:6 27:19	137:20 138:9	250:15,17	34:4 118:16
results 2:23 3:5	30:25 33:25	139:2,8,14,18	251:2,5,8,10,13	178:2,8 179:23
12:20 36:25	46:7 50:4,6,8	139:21 140:6,7	251:15,16,17	180:1 222:10
71:8 74:18 75:1	51:3,5,13,17	140:12 141:9	252:1,2,8	222:14 225:10
84:1 114:9	52:5 53:8,12,21	141:12,19	253:10,13,22	ring 41:8 44:7,7
127:3 132:24	54:10 55:3,14	142:20 143:2,9	254:11 255:9	rise 66:23
133:6 136:15	56:24 57:6,13	144:6,15 145:1	255:16,17	rises 298:3
157:25 166:24	57:15,21 58:2	146:19 147:5	256:16 257:15	rodden 1:13 2:8
182:14,17	59:17 62:2,7,17	147:14,18,21	257:19 258:6	2:10,14,15,18
220:7 285:8	63:5 64:10,11	149:5 150:21	262:20 267:8	3:3,7,14,15,17
287:7 324:10	64:12 65:11	151:12 152:14	269:12 273:6	5:7,12,17,22,22
356:14,14	66:12,18 68:3	153:24 158:6	273:14 276:8	5:23 8:12,14
358:11	68:24 69:7,13	159:11 161:10	279:16 282:25	14:8 18:6 21:14
retained 208:14	71:21 72:22	163:8 164:5,12	283:3 285:2	22:24 23:6,18
294:5	73:4,11,18,22	168:1,8 169:8	288:9 289:9,12	24:13,22 25:3,7
	, , ,	*	,	, , , , , , , , , , , , , , , , , , , ,
retiring 91:5 return 59:15	74:4,10,12 75:6	174:5,9,17	289:24 290:14	27:19,22 28:8
	75:21 76:6,12	177:15 178:8	291:22 293:22	32:11 34:1,12
98:21 365:16	76:15 78:9 79:3	178:24 179:15	294:12 301:20	45:15 47:11,11
returns 285:24	79:8,13 81:10	180:18 182:4	302:13 304:8	47:22 51:13
reveal 23:22	82:12 83:1,2	183:14,23	304:15,18,24	52:10 56:4
reveals 120:1,3	85:12,17 88:16	185:5,15	306:23 307:7	64:10 65:9
121:6 222:2	88:19,25 89:6	188:23 189:1,2	308:8 312:1,13	67:18,19,23
revelation 91:5	89:15 92:24	189:8 190:20	312:17 313:11	69:16 70:15
reverse 138:8	94:15 95:15	191:1 193:21	315:21 316:6	72:25 78:9
215:9	96:23 101:5,24	194:23 196:10	322:22 323:19	81:11,12,15,22
review 13:17	102:3,9,19	197:2 200:1,3	324:2 327:19	81:25 83:10
14:10 17:22	103:15 104:1	200:13 203:12	332:3 333:14	88:6 89:12
30:12,13,15,21	105:10,18	204:13,23	334:1,13	95:23 99:23,24
81:8 89:12,21	106:8,24 107:7	208:16 211:11	335:16 336:20	101:12 107:11
90:23 116:13	107:21 108:8	211:25 212:12	337:5 341:24	107:12,17
157:21 324:18	108:12,16	213:15 215:10	344:13,20	109:9 112:20
324:20	109:8,8,11,20	215:18 218:5	345:11,16	113:21 114:12
reviewed 100:5,6	110:13,18,23	221:12 222:11	346:9,10,21	116:9,14,18
274:4,7	110:24 111:9	223:7,10	347:10,14	121:5 122:20
reviewing 7:23	112:2 113:3,9	224:23 225:25	348:12 349:19	122:25 124:6
16:15	114:1,6,12	227:11 228:5,9	353:25 354:12	124:12 125:4
revise 136:4	115:15,19,20	228:18 231:6	358:12 362:2	126:9 127:9,11
	1		I	ı

MIDWEST LITIGATION SERVICES Phone: 1.800.280.3376

				411
128:2,3,17	315:25 316:6	175:23 176:4,5	356:15,19	saying 26:22
129:20 136:17	316:23 317:1,2	177:12 180:25	357:5,11,18,25	34:9 43:15
136:23,24	317:4 318:15	181:1,7 183:7	358:17 359:13	52:22 79:6,9,11
137:21 149:5	320:15,25	183:20 184:17	359:21 360:1,5	79:13,14,14
157.21 149.5	321:1,4,13	184:18 185:14	360:12 361:11	84:10 85:23
155:3 156:1	322:18 323:14	186:14 187:11	361:23	89:7 104:24
157:4,18	323:19 325:2		rules 6:2 129:24	122:24 136:8
163:24 164:2,5		187:15 188:1,7 190:1,6,10		
· · · · · · · · · · · · · · · · · · ·	329:16 342:13	, , ,	180:21 181:5 209:6 219:21	160:16,16,19
166:15 167:15	342:14 346:9	191:6,7,14,15		160:21 163:8
171:2 173:13	348:17 350:7	192:12,14,17	231:7,20	166:23 167:4
175:18 176:24	351:22 352:6	193:10 194:11	247:24 249:12	180:22 188:12
178:8 180:18	353:20,25	195:25 196:4	252:11 254:22	192:22 226:6,9
182:9,15	357:10 358:12	198:4,24,24	259:15 260:9	240:5 289:6
183:11 184:10	358:25 359:22	199:15 201:1	260:10 277:25	293:22 295:2
184:24 190:5	360:8 361:17	201:17,21	282:4 356:6	328:15
193:13 202:15	362:1,6,25	202:21,21	357:2	says 5:14 134:4
209:19 211:5	363:4 365:12	205:3,19	run 115:5 136:14	152:23 266:2
211:11 213:19	366:4,14,23	206:19 207:2	143:17 196:25	327:24 330:16
214:2 215:1	367:3	207:23 208:2	211:23 224:17	345:8 352:3
222:17 237:20	role 41:20 42:8	208:24 209:4	241:17 250:1	scale 234:11
237:22 238:14	42:15 43:4	209:14 211:2	251:24 260:22	318:2,8
238:16 239:20	rolloff 319:5,5	211:15 213:19	266:12 294:9	scan 232:2
240:22 244:12	romney 317:24	214:20,21	running 230:6	299:20
244:17 245:4	318:10	215:1,6 216:5	240:18 241:18	scatter 87:25
246:16 247:24	rose 96:6	216:10,25	245:15 277:19	88:1,3 273:11
252:9 259:12	rothert 4:10	217:2,4,5,7,13	277:20 278:22	scenario 65:25
259:14 260:4	rothman 25:18	218:20,23	281:11 319:14	66:3 182:5
260:16 265:23	rough 48:25 62:9	227:7,10,11		183:2,6 314:6
271:24 272:7,9	roughly 31:4	228:19,20	<u>S</u>	335:6
272:10,12	59:21 62:13	231:1,11 235:2	s 4:1 44:11	scenarios 131:2
273:6 274:14	298:10,24	235:3,23,23	salaries 36:23	181:2,6
276:4,8 279:16	311:14	244:5,6,7,8,16	sample 57:13,19	scholars 25:10
280:4 281:23	round 197:5	244:20,21,22	57:20 58:11	25:21 26:2
282:11,25	rounded 341:6	245:1 246:4,6	61:11 106:20	scholarship 9:6
283:15 287:9	rounding 169:8	246:10,12,15	172:16 304:21	school 1:8,25
287:11,12,16	215:22	246:19 247:7	sampling 57:23	3:12 20:6,10,11
295:7,25	row 176:6 251:25	247:11,14,21	57:25 58:2,4,4	35:10 36:1,3,5
297:15 301:13	252:3,4,4,5,5,6	248:6,21	58:6,9	36:9,13,18,19
301:15,23	252:6,7,7,8,8	249:11,16	sat 7:13 256:5,8	37:2 38:13 40:2
302:2 304:19	301:25 302:11	254:21 255:4	satisfy 30:12,13	40:7,17,20
305:21 307:3,9	309:21 352:4,8	258:19 259:20	30:14 90:16	45:21 47:24
308:8 310:21	352:20	259:25 265:11	savala 146:7	48:2,9,9,15,25
311:2 312:7,9	rows 82:2	295:13 344:22	234:20 237:7	49:9,15,20
312:13,18	rpr 4:22 365:20	354:3,8,11,21	251:12	50:10,12,19
313:11,22	rule 78:11,22	354:25 355:5	save 294:9	54:9 55:18 56:3
314:5 315:21	80:19 131:20	355:11,16,21	saw 273:11	56:16 62:17
		, ,	358:25	
	l l		1	I

Case: 4:14-cv-02077-RWS Doc. #: 82-9 Filed: 09/30/15 Page: 138 of 155 PageID #: 1124

JONATHAN RODDEN, Ph.D. 8/20/2015

412

Fax: 314.644.1334

				412
63:4 67:4,11,15	301:4,9 303:5	118:11 162:12	158:24 159:8	124:25 143:6
69:20,23 70:20	303:10 305:2	260:1,11	160:6 161:23	145:23 152:24
71:1,16,18	305:11 306:1	278:15 281:6	161:25 162:9	163:8,10,15,22
72:12 73:1,3,7	307:2 309:7	281:14 284:15	162:10,13	196:21 202:4,8
74:1,3,4,15	313:7 315:4,20	319:10 325:9	164:12 165:1	202:12 229:25
75:9,10,11,20	316:10,15	356:7,20	165:20 167:13	230:6 232:23
75:24 84:2 88:8	336:7,8 352:13	357:12 358:17	169:24 170:2,6	237:15 238:9
88:15 89:3,19	353:15 356:16	scientists 17:22	170:12 171:7	245:10 251:24
94:1 97:2,11	362:13 363:8	35:2 57:8 71:22	174:6,7 175:9	259:5 276:17
100:18,24	363:13 365:9	76:25 94:17	175:17 176:19	287:23 330:23
101:5,10,16,21	366:24 367:4	179:11 274:1	181:21 186:1,4	337:10 347:16
104:8 105:1,6	schools 22:2	score 324:9	186:18 187:4	352:5
105:25 106:10	schroeder 142:1	sd 2:19	188:25 189:13	seeing 108:25
106:17 107:2	142:11,17	seal 320:14,21	190:8,15 194:3	seek 31:20
108:7,11	144:6,15,21	327:18,19	197:4 201:4,19	seeks 33:24
110:10 111:2	145:5 207:8,12	331:24	202:7 204:3	seen 36:15 64:8
112:12,19	207:18,24	searches 239:17	211:3 212:25	88:17 159:3
113:7,13,17,25	214:11,15,23	seats 29:1,3	216:5 221:5,10	232:14 291:13
115:9,11,11	215:9 218:13	72:25 134:24	221:20 227:23	321:3 351:8
116:9 117:24	218:21 219:2	135:24 137:8	228:16 230:17	sees 88:2
118:2 119:5,15	219:11,15,19	138:17 139:13	231:2 246:2	segregated 44:16
120:5 123:23	220:14 221:10	140:23 142:7	252:3 256:17	44:17 45:16
128:10,15	221:10,13,17	142:22 146:3	257:1 259:19	46:10
129:13,25	221:21 222:6	146:25 147:23	272:23 300:5	segregation 12:3
150:9,18	222:23 224:15	151:3,12,15	302:11 304:9	12:6,8,11,12,15
152:13 153:9	245:10 246:25	152:19 155:14	308:15 311:18	12:17,24 13:3
154:21 171:15	250:23 251:7	164:4 165:21	324:14 340:20	13:12,22 14:2,8
171:19,23	262:12,15,17	176:19 178:23	343:10,16,25	14:12 16:1,5
172:1,21	262:19,22	180:14,15,17	343:25 344:4,5	38:21 41:1 43:7
232:17 236:23	263:2	180:23 195:12	345:6 363:16	46:6,15,21
242:16,23	science 2:11 8:17	200:1,17	section 19:8,10	selected 152:2
244:24 265:16	8:20,23 9:5,10	204:13 208:14	19:24 21:19	153:20
272:25 273:7	9:14,17 12:9	213:1,2 214:6,9	47:25 48:3 49:5	selection 9:4
273:20 275:20	13:18 14:11	215:18 220:18	75:17 117:23	senate 3:17 180:3
276:2,22,23	18:1 22:12	226:21 234:1	133:2 134:8	287:15
277:12 278:10	25:21 26:2	254:10 257:3	276:16,19	send 323:10,24
278:11,16	28:24 74:9	257:11,23	330:23 331:1	sending 318:13
279:20,21	76:22 81:8	335:11,12	see 29:3,22 30:3	322:17
280:1,3,14	116:12 157:23	336:2,5,10	53:9 83:13 88:4	sense 52:17 60:2
282:17 285:18	192:25 325:3	337:6,8 350:22	88:4 92:3 97:12	78:22 112:7
285:23,25	sciences 325:25	360:24	99:11 100:19	127:24 131:23
286:2 288:16	scientist 11:20	second 38:16,19	105:12 107:24	132:2 166:3
292:5,21 293:7	20:8 21:15,20	49:12 53:10	108:21 115:3	170:13 179:5
293:10,24	30:7 35:13,21	82:10 98:23,24	119:17 121:18	180:12,15
296:3 300:8,12	37:19 39:12	134:2 135:19	121:23 122:3,6	226:7 302:10
300:20,24	51:19 61:8	135:21 156:21	122:8,9 123:15	337:16 343:21

Case: 4:14-cv-02077-RWS Doc. #: 82-9 Filed: 09/30/15 Page: 139 of 155 PageID #: 1125

JONATHAN RODDEN, Ph.D. 8/20/2015

				413
				413
sensible 106:22	270:22 335:9	81:10 99:21,22	120:4,10,13,22	126:18,18
337:5	335:10,11,17	260:3 266:8	121:1,4,8,12,15	129:21 130:10
sent 81:19	335:22 336:2,5	280:12 316:23	122:15 160:12	163:18 171:6
107:15 322:13	338:10 339:16	320:24 329:12	167:2,5 168:16	181:9 247:12
323:16 327:16	339:20,23	329:21 330:10	175:19 180:24	276:11 299:22
329:13 333:7	340:1,3,7,8	334:11 349:25	193:8 194:9	306:11 337:9
sentence 31:17	341:5,8 342:8	350:4	197:18 198:11	346:20 347:4,6
32:2 35:1 37:8	350:21 359:25	showed 70:9	202:6,6 205:17	351:2,4,9,11,14
39:25 43:6	seventh 157:5	showing 60:12	206:21	351:14,19
53:10 77:21	sex 2:16	66:7 107:23	significantly	singleshot 131:12
83:12 85:7	shaded 82:2	108:6 273:12	79:24 87:11	131:19,24
96:15,15	shaking 6:13	shown 35:2	184:2,23 185:6	132:1,7 158:3
119:25 121:5	shape 13:23	69:17	187:7 203:8	171:6,8,10,20
134:22,25	share 60:5 119:6	shows 101:14	204:5 215:25	171:24 172:3,5
135:3,19,25	119:14,23	113:24	216:21 218:17	172:11,19,20
158:14 212:25	121:17 125:1	sic 204:16 233:19	227:4 234:24	173:3 181:9,13
220:9 225:20	126:7 130:17	side 7:1,19 8:5	245:25 343:2,5	181:18,21,24
229:18 232:5	311:5 337:6,8	88:3 121:21	343:6	223:2 224:4
233:24 236:11	shares 122:5,6	200:7 339:15	signing 94:1	226:4,8,17
236:12 242:10	312:23	341:5	silliness 176:6	sister 95:21
253:8 255:7	sheet 108:3	sign 365:15	similar 54:2,6	sits 77:23
257:1,21	165:24 186:16	signature 5:5	90:4 127:3	sitting 91:8
275:17 293:14	244:17 249:24	363:19 365:13	274:16 275:2	171:25 320:4
296:2 300:6	341:25 365:13	365:15,16	286:23 292:13	situation 52:16
322:11 326:12	365:15,16	366:22 367:25	292:21 297:8	162:21 164:19
326:24 330:20	367:1	signed 47:17	297:14 311:14	177:9 182:6,10
sentences 160:4	sheets 109:3	308:8 332:10	311:16	246:7 274:2
257:2	shes 194:2	significance 79:1	simple 45:8	314:19 347:25
separate 74:23	211:23 233:21	80:23 175:23	simpler 222:18	348:8
75:1 78:15,25	233:21	177:12 184:19	279:11	situations 120:7
129:8	shift 99:22	186:17 188:7	simply 45:1	121:1
separately 74:25	shoes 118:18	191:8,23	74:23 78:18	six 40:1,16 83:13
223:20 325:16	shooting 96:21	194:12 195:4	89:13 135:21	83:18,20 84:5
separation 97:1	97:24 99:6	198:25 201:18	166:8 167:13	84:14 151:8,10
236:23	114:18	203:24 205:20	224:23 259:20	151:13,15
series 49:13	short 57:12	206:18 207:24	277:24	152:8 153:6,7
serious 96:20	80:22 209:7	208:22 209:5	simulating 31:2	154:7 211:10
services 4:23	217:3,15	214:21 216:4	simulations	270:19 357:23
324:23 365:1	306:11,12	216:11 217:2	28:10	359:21
set 3:12 12:18,19	307:21 347:6	219:10,14	simultaneously	sixth 157:9
126:16 225:10	shorthand 1:19	227:8 228:19	336:2	301:25
setting 210:16	5:3,4 10:11	235:2,24 244:7	sincerely 365:19	sizable 48:19
seven 40:1,16,19	33:15 364:5	256:23 354:4	single 111:16,17	size 31:4,6 60:18
152:8,8,10	shouldnt 302:6	significant 48:17	111:23 112:10	61:2 292:18
245:3,6 250:18	show 8:11 27:21	84:7,7,12,15,21	112:23 113:10	skip 318:19
265:3,4,4	46:9 47:10	85:5,10 86:14	113:11 114:2,2	slate 236:16,24
•				
	I	I	I	1

MIDWEST LITIGATION SERVICES Phone: 1.800.280.3376

Case: 4:14-cv-02077-RWS Doc. #: 82-9 Filed: 09/30/15 Page: 140 of 155 PageID #: 1126

JONATHAN RODDEN, Ph.D. 8/20/2015

				414
237:4,11,14	software 59:5	297:25 302:5	specific 313:23	301:15 302:17
239:10 240:16	solutions 15:11	304:13 308:14	specifically 7:3	303:13
240:18 242:2	somebodies	308:22 309:1	14:8 35:25 37:4	spreadsheets
289:8,9	240:8	315:7 316:24	38:9 70:3	129:1 132:11
slice 58:17	somebody 240:5	336:16 338:5,9	124:17 125:4	142:25 173:13
sliding 234:11	240:7,7	338:23 345:3	158:13 184:10	178:25
slight 363:10	somewhat	345:21,23	313:7 325:9	st 1:9,17 3:7,9,11
slightly 23:8	123:10 243:19	346:18 347:2	330:4 351:18	4:10,15,24
77:22 114:8	274:17	349:12,13,15	spectrum 314:5	15:15,21 16:9
160:10 169:21	soon 224:20	352:4 356:3	sped 45:2	16:11,17 17:2
342:11 344:15	sophia 4:19	359:11	speed 45:5	17:13 18:2
slim 150:4	sophisticated	sort 30:16,24	spell 5:19	34:15 37:12,24
slope 298:3	171:4,9,11,12	73:19 74:2	spelled 140:3	41:2,17,21,25
slopes 113:25	171:13	89:13 211:2	142:1 143:15	42:3,8,12,15,21
slot 345:6	sorry 21:1,3 29:5	289:10 290:12	214:18	42:24 43:3,4,7
slow 190:4,15,17	29:7 32:11	314:4 348:7	spend 165:24	43:16 45:16
339:2,2	34:18 38:18	sorts 57:9 91:8	239:15	46:6,11,14,17
small 35:2 57:16	41:6 42:17,17	sound 241:9	spent 10:18	46:18,22
101:11 112:16	48:23 61:18	242:1,3	spike 89:18	238:11,12
133:25 177:7	65:14 68:1 70:5	sounds 57:15	90:21 93:7	239:20 240:15
217:15 269:7	79:6 83:15	140:7 211:25	spiked 92:25	284:15 296:4,5
306:13 358:9	84:24 99:4,12	228:5 322:3	spikes 90:6	296:7,18,23
358:10 360:23	100:14 102:18	333:14	spirit 8:1 92:2	297:1,5,6,10,15
360:24 362:16	114:10 120:2	source 68:4 74:7	95:5	297:22 298:7
363:11	135:8 140:10	240:12 241:4,7	split 158:22	365:2,7
smaller 58:11,14	143:5 151:22	sources 95:11	163:5 166:4,25	stable 115:5
69:22 285:22	156:5,19	102:10 238:9	176:7 177:19	stack 32:3 33:3
286:11 358:5	157:16 161:9	238:18,25	246:8 247:17	staggered 287:23
smart 172:13	164:1 170:11	239:3,8 241:3	splits 177:23	288:2,7,9,10
smith 174:24	173:6,22 177:5	south 4:15 365:6	splitting 221:22	335:21
175:8 176:1	184:21 187:17	southern 229:24	spoiled 132:8	stamps 301:5
186:8,11	188:2 191:5	229:24 230:3	spoke 7:25	stand 241:21
smiths 175:4	192:16 194:20	space 9:24 16:24	spokesman	standard 116:12
smoother 52:17	194:23 195:14	28:17 299:21	241:15 242:1	121:2,3 157:20
snap 301:5	195:20 200:9	span 355:12	spots 45:19	163:17,18
social 11:10 12:9	200:14 202:17	spatial 12:9	299:22	210:13 297:10
21:15,20 22:12	209:12,12	speak 7:21 133:9	spread 92:6	standards 9:9
61:7 76:25 92:7	214:8 218:6	274:22 345:22	spreadsheet 2:21	30:12,13,15
92:12 94:15,18	222:17 223:17	speaking 118:3	2:22 81:18	77:2 81:7 89:21
118:11 325:25	229:15 232:21	119:22 133:3	85:15 91:14	325:3
socioeconomic	236:8 238:6	special 97:13,13	107:14 108:15	stands 120:15
14:18 15:1 16:5	239:7 245:23	97:18,18 99:7	110:2 128:4,7	stanford 3:19
16:23 41:21	249:21 254:18	99:10,18	128:18 132:23	8:17 12:7,10
42:8,15,20 43:4	257:16 282:5	173:10 242:21	136:16 139:25	317:8 321:8,18
69:21 70:1	289:13,16	253:20,23	157:1 169:9	325:14 326:7,8
71:20 300:18	293:20 294:15	254:2,3,4	184:22 260:16	326:15,23
			1	

MIDWEST LITIGATION SERVICES Phone: 1.800.280.3376

Case: 4:14-cv-02077-RWS Doc. #: 82-9 Filed: 09/30/15 Page: 141 of 155 PageID #: 1127

JONATHAN RODDEN, Ph.D. 8/20/2015

				415
227.1.25	220 22 252 15		122.10	20 20 210 17
327:1,25	220:22 253:15	statistically	133:18	30:20 319:17
328:20 329:3,6	253:19 257:19	78:16 79:21	stipulation	319:19
329:14,22	258:17,18	80:3,15 81:3	131:19	stuff 202:18
330:1,11	274:16 330:9	84:6,7,12,15,20	stipulations	style 17:15
332:10 333:1,5	statements 19:23	85:5,10 86:14	131:8	subjects 325:11
333:15,18	34:7	86:17 87:11	stop 200:3 213:2	submit 327:5
348:8	states 1:1,21 2:16	160:12,22,24	stopped 43:23	submitted 179:7
start 48:23 62:6	10:8 13:4,21	161:15 167:5	story 93:15 254:4	327:10
68:2 102:22	15:10 22:2	167:10,11	313:3	subscribe 366:10
105:24 106:8	32:18 37:3	168:15 175:19	straight 52:13	subscription
114:10 120:2	44:15 45:17	176:2 180:23	104:6	34:23
124:7 155:10	47:23 58:22,25	184:1,23 185:6	straightforward	subsequent
185:22 198:8	61:5 67:23	187:7 189:24	21:22 279:14	113:15
245:23 312:11	96:16 120:1	192:24 193:7	strange 74:6	substance 244:20
started 20:21	273:23 274:3	194:9 197:17	181:2,6 182:14	366:7
45:11 75:24	288:3 290:2	199:11 202:6	182:17	substantial 44:12
102:19 223:13	297:11 314:15	203:4,7 204:5	strategies 171:17	44:14 122:11
325:22,23	322:11 329:11	205:17 206:20	173:10	substantially
starting 103:19	331:13	215:25 216:21	strategy 37:10	160:18 174:20
106:11 113:16	stating 95:16	218:17 227:3	123:18 171:6,8	189:21 201:13
114:4,6 151:22	statistic 213:3	234:24 235:20	171:11,11,20	218:2 221:16
153:4 154:16	254:5 293:14	245:25 343:2,5	171:24 172:3,5	222:21 228:11
185:19 248:5	statistical 78:7	343:16	172:12 173:4	228:13 229:22
250:4 260:23	79:1,7 80:22	statistics 46:21	223:2 350:12	358:11
271:8 301:25	94:19 159:24	159:4 256:7	street 1:17 4:4,9	subtracted 88:17
starts 77:21	159:24 161:18	313:20,23	4:23	subtracting 88:8
83:12 229:19	165:15 169:17	status 37:15	stressed 103:6	subunits 58:14
239:24	175:7,23	38:25 208:21	strict 127:7	suburban 45:2
state 1:3,22 5:19	177:12 182:19	210:10 213:19	strike 90:6	suburbanization
10:22 18:10	184:19 186:12	254:23 255:5	strong 158:13,16	13:6 43:21 44:2
23:4 24:14	186:17 188:7	282:3 295:15	180:9 225:8	44:12 45:3,8,9
29:14 35:23	191:1,8,23	306:12	254:4 311:16	suburbanized
59:9,10 68:8	192:2,8 194:11	statute 331:23	360:25	44:1
69:19 70:22,25	194:14 195:3,4	332:4	stronger 233:21	suburbia 44:4
121:6 135:8	195:18 196:12	stay 38:19 62:21	strongly 330:1	suburbs 43:17
288:23 320:15	198:3,25	124:22 127:21	332:23	44:6,7,10
320:17,20,21	201:18 203:23	steep 114:25	structures 10:24	success 3:5
321:7,12 322:1	205:20 206:18	stem 93:19	student 35:16	150:22 153:13
322:13,19	207:23 208:22	step 125:24	40:6,9	153:16 154:24
331:10,24	209:5 214:21	stephen 25:14	students 15:24	155:3 156:1,10
364:6,21 366:1	216:4,11 217:1	stick 63:7 65:8	16:2,6,10	156:13 245:6
stated 84:23	219:9,14 227:7	134:12 158:25	studied 20:16	249:7 264:17
165:10 304:18	228:16,19	247:25	studies 17:14	265:3,7,8
328:11	235:2,24 244:7	sticking 63:20	324:19	270:17,21
statement 124:14	256:23 334:18	stipulated 5:1	study 10:6 25:10	285:12 342:5,9
161:16 167:15	353:4 354:4	stipulating	25:21 26:2	356:1,16 357:6
		1 9		, : 223
	I		I	I

MIDWEST LITIGATION SERVICES Phone: 1.800.280.3376

Case: 4:14-cv-02077-RWS Doc. #: 82-9 Filed: 09/30/15 Page: 142 of 155 PageID #: 1128

JONATHAN RODDEN, Ph.D. 8/20/2015

416

Fax: 314.644.1334

				410
357:7 358:5,23	71:9 89:9 117:4	138:20 139:7	219:6 221:5,9	147:16 155:7
359:3,8,8,19,25	133:24	139:17 140:2	221:11,13,17	167:25 169:10
360:4,13,16	suggest 160:9	140:12,17	221:11,13,17	170:18 178:12
361:4,10,11,14	295:22	141:1,11,18,25	226:25 227:3	197:7 198:3
361:15	suggested 37:25	142:10,16	227:19,24	201:15 202:1
successful 3:22	191:7 231:21	143:1,8,11,23	228:4,7,11	210:14 212:15
45:23 137:5	suggesting 158:2	144:5,9,13,15	229:20 230:24	218:4 221:2
138:5,13	166:8,8,17	145:4,12,19	231:23 232:1,4	223:21 225:18
139:10 141:4	211:15 351:12	146:6,14,18	232:15 233:2	226:20 229:6
143:8 144:21	suggests 43:22	147:4,9,13	233:18,20,21	230:12 231:14
145:25 149:12	121:12 342:4	148:3,4,12,21	234:23 235:19	240:10 248:2
149:21 150:13	suitable 59:7	149:4,18 150:1	245:24 256:13	257:9,16 260:6
153:4,8 154:9	suite 4:15 365:6	153:3 157:6,11	256:19 258:23	260:15,18
154:15,20	sum 289:10	157:16 158:13	267:13,20	266:12 267:8
155:21 156:5,8	290:12	158:16,17,21	268:4,15,23	271:3,5 275:3
168:1,4 170:15	summarized	159:9,19,20	273:6 274:8	276:6 277:14
186:23 187:16	17:19	160:9,17 161:1	275:8 282:12	283:18,21
193:11 195:1	summary 48:6	161:19 165:1	282:20 283:10	288:8 291:1
199:19 201:22	76:19 112:14	165:18 166:10	283:10 286:20	293:19 295:6
203:17 204:9	summer 115:7	166:12 167:6,9	286:23 296:11	295:14 299:19
205:3 220:20	superintendent	168:9,11,12,16	296:16 359:7	303:21 308:16
229:11 245:2	3:8,11 91:6	168:25,25	supported 90:22	309:19 315:15
247:5,8 248:10	93:19,22 94:3,4	169:7,12,14,19	130:2 131:23	321:9 326:22
248:17,23	96:18 97:2	170:11 173:15	132:6 194:3	333:22 334:3
249:5 255:12	236:14,24	173:23 174:8	219:14 246:3	346:25
255:16,22,25	237:3 241:24	174:11,16,23	supporters 171:5	surface 14:14
270:23 271:14	242:11 243:6	175:3,4,5,9,20	172:5 226:3,16	15:8
337:3,24	243:15	175:21 176:2	supposed 324:18	surpass 83:19
344:12 345:9	supplement	180:24 184:1	325:10	surprise 115:8
345:13,25	30:23 68:15	184:24 185:7	supreme 125:9	surrounding
346:3 348:24	85:22	185:25 186:5,8	125:17 225:11	39:2
350:6 354:18	supplemental	187:5,6 189:8	317:18 318:7	survey 56:21
355:2,9,12,18	3:15,16 49:24	189:18,21	sure 8:14 21:7,8	57:11 68:12,17
357:20,24	67:6 71:13	190:22 193:14	25:5,14 48:3	103:3 305:3
358:20 361:6	272:15 274:13	193:16,17,20	51:10 65:4,15	309:11,23
sufficiency	287:9,14	196:9,14 197:9	72:18 75:12	310:3,9 311:1
329:10,20	295:24 304:7,8	198:17,17,19	79:25 80:2	315:24
330:4	307:8 308:1,17	199:7,10 201:5	91:15 95:22	survive 89:20
sufficient 30:8	316:17 349:4	201:9,13 204:5	96:1 102:23	90:23
159:24 321:15	support 126:2,6	206:11,11	104:21,23	switch 272:6
322:6 326:3,4	128:8,14	207:9,19,20	108:17,18,20	switched 241:23
329:12,21	132:25 133:8	208:21 211:9	109:25 110:3	switching 231:6
330:10,25	134:17 135:5	214:11,14,17	114:7,13	sworn 1:14 5:13
331:11	135:15,17	215:21,24	121:10 126:14	364:8
sufficiently 37:2	136:10 137:4	216:1,16,18,22	129:4,6 131:9	system 3:23
51:21 55:23,25	137:11 138:3,7	217:18 218:16	131:10 136:21	120:15 133:14

Case: 4:14-cv-02077-RWS Doc. #: 82-9 Filed: 09/30/15 Page: 143 of 155 PageID #: 1129

JONATHAN RODDEN, Ph.D. 8/20/2015

				417
	l	1	l	l
162:15 289:18	299:21 307:23	tax 91:7,24 92:20	99:13,13 101:8	253:25 255:18
291:3,7 342:2	332:23 334:4	92:24 93:6,13	119:19 128:8	299:24
342:12 348:25	343:22 364:9	93:20 94:11,14	156:13 169:12	thank 8:13 29:7
systematically	364:13 365:12	taxes 93:20	169:13 177:13	68:20 128:21
278:2	367:4	teach 20:9,10	183:15 184:22	144:17 170:23
systems 10:20	takes 32:17 41:3	22:3,4	186:5,7 187:5,6	188:19 200:6
225:12 351:10	73:2,10 175:16	teacher 36:22	189:7 206:11	200:16 247:1
351:13,15	talk 52:7 61:20	292:18	208:10,21	266:7 341:4
	72:15 75:12	teachers 35:3,14	210:3 214:11	363:18 365:18
<u>T</u>	77:15 125:3	35:22 36:1,8,13	215:20 227:23	thats 8:10,22
table 2:15 163:24	134:19 155:10	36:14 292:22	228:4 235:21	10:13 12:25
171:25 197:6	156:20 157:25	teaching 16:11	275:1,7 277:10	15:4 16:6 17:5
280:6 281:19	159:8 168:7	17:8 27:8	281:3 287:23	17:15 18:5
281:20 282:22	173:2 174:6	technically 107:4	288:2,7,9,10	20:11 21:2,5
308:11,13	181:4 188:11	294:7	299:11 312:10	22:25 24:24
309:5,6,10	195:11 223:19	technique 220:6	314:9 317:19	31:10 32:25
315:8,17	225:19 226:19	222:3	335:21 347:4	33:20 38:8
316:17 334:17	230:16 265:25	tell 36:21 90:7	350:14 362:3	39:22 40:22
341:10 344:24	275:4 295:4	102:15 121:11	363:7	42:19 45:10
347:20 349:4	304:11 314:19	127:16 143:13	test 29:18 30:10	48:6,13 50:16
349:18,20	347:24	150:6 151:1	78:15 88:13	51:1 53:13 54:4
350:19,20	talked 77:10	153:13 154:14	89:13 198:3	55:14 56:23
353:7 361:3	79:17 95:25	169:17 222:6	209:5 217:1	57:12 58:20,24
tables 349:18,25	198:1 257:2	233:15 249:19	319:25	61:21 62:15,16
350:19	259:14 301:12	286:22 305:24	testified 18:9,12	62:18 67:8 70:7
take 6:12 7:5,6	310:12 349:7,8	306:3 337:1	23:11 34:14	72:14 73:5,9
47:1,2 48:4	349:11	telling 68:4 78:21	36:15 55:23	74:13,13 76:19
58:5 62:4 72:3	talking 92:13	177:6,8	100:5 125:19	76:21,21 80:4
73:24 81:17	98:14 109:4	tells 60:22 283:9	242:18 243:17	81:4 84:17
83:4 108:17,20	128:3 223:13	304:4 315:18	243:19,20	85:11 90:13
117:8 122:17	255:10 274:2	316:8	358:8	91:19,22 92:22
126:14,15	276:8 288:9	tempted 22:4	testify 6:22 20:24	99:2,10 102:3
127:16,22	289:21 308:24	tend 273:8	243:18	103:13 109:23
133:16 135:14	313:6 346:24	tendency 318:18	testifying 18:17	110:16 111:9
135:16 166:3	347:1 360:24	tends 291:14	19:4	111:11 112:2
175:19 181:6,7	talks 13:22	term 10:11	testimony 18:14	112:16 115:15
204:22 229:6	tally 224:20	101:23 133:3,4	18:20,24 21:10	115:20 122:2
246:23 249:25	256:21 258:7	146:22 147:8	23:16,17 48:17	122:22,24
259:8,9 293:19	tallying 255:23	150:12 154:8	162:4 184:9,14	123:9,14
294:15,18,18	256:11,12	155:18 277:2	184:15 305:12	125:15 128:21
307:18 314:11	target 322:24	350:6	364:7,8	129:22 133:20
341:13 346:25	323:3	terms 11:4 28:11	testing 79:1	139:22 140:7
346:25 353:19	task 59:7 61:1	31:4 39:14	94:23 318:25	141:8,16,23
taken 5:3 19:3	163:16 225:9	46:15 62:10	text 53:6 102:22	143:9 149:9
83:8 128:1	241:15 242:1	63:4 71:19 84:1	132:22 133:14	150:21 152:17
164:17 170:25	311:8 337:4	85:16 98:17,18	180:2 220:3,24	150.21 152.17
246:9 259:10	311.0 337.4	05.10 70.17,10	100.2 220.3,24	137.4,11,44
2.0.7 207.10		1		

MIDWEST LITIGATION SERVICES Phone: 1.800.280.3376

Case: 4:14-cv-02077-RWS Doc. #: 82-9 Filed: 09/30/15 Page: 144 of 155 PageID #: 1130

JONATHAN RODDEN, Ph.D. 8/20/2015

				418
	1	1	1	110
156:10 157:20	299:8,15 300:2	180:23 188:1	324:11 335:4	363:16
157:22 158:10	300:10 301:14	189:9,9,9 198:7	344:8	thinking 11:10
159:13 161:21	302:4,8,13	208:10 209:2	think 11:15,16	32:7 33:6,8
161:24 162:3	306:17,18	266:1 276:11	11:21 23:3	42:18 50:5
163:14 164:13	307:5 308:25	282:20 283:8	25:17 27:21	third 39:25 77:21
164:16,23	309:3 312:8,17	284:18 285:3	28:6,14 29:6	82:14 83:11
166:7,16,20	313:24 314:6	287:1 288:12	30:20 36:12	128:7 133:25
169:15 170:4	314:23 315:5	289:10,14,23	48:16 53:8	135:21 174:23
172:6 173:1	320:2,23 322:4	290:10,16,18	61:19 63:6	175:18 186:7
174:15 179:13	324:3 329:8	298:2 300:14	67:12 70:18	190:17 194:7
186:2 187:23	330:15 332:2	304:3 315:18	74:20 75:4,11	197:13 198:19
189:6 191:13	333:1 336:4	316:11,11	90:7 93:3,17	199:6,16
192:10 198:22	337:25 338:15	343:24 347:20	94:8 95:1 98:1	205:13 207:15
200:23 201:8	339:6 346:21	351:12	98:13 99:4	214:17 216:5
202:4,5,13,14	347:15,15,15	thereto 364:15	109:19 118:11	217:9 225:20
202:19 203:10	350:18 353:15	theyre 63:18	118:14 120:12	230:24 231:12
210:24 211:22	354:10 355:24	67:25 79:7,9,11	131:12 133:13	239:22,23
215:10,13	357:22 358:15	79:12 80:15	134:4,7,22	246:2 252:4
220:1,9,13	358:23 359:1	116:3 189:24	143:12,18	303:12 340:20
221:6 223:18	359:10 361:18	256:17 300:1	162:10,21	352:5
223:24 226:1,9	361:21,25	353:7	166:7 168:24	thomas 122:4
228:21 230:8	theme 45:6	theyve 98:23	169:6 170:10	125:1 132:18
232:5,10	themes 11:16	thing 6:4 7:7	170:13 173:3	132:24 137:11
233:10,11	theories 330:22	33:2 50:6 78:18	174:19 175:12	137:22 138:8
234:14,16	theory 92:17	87:13 88:24	176:25 180:20	140:12 141:19
237:6 242:21	94:2 110:14	89:9 92:14	180:22 190:7	173:15,25
242:22 243:13	332:6	93:14 99:10	190:14 200:7	174:11,19
244:18 245:14	thereon 366:9	124:24 148:16	203:10 210:16	175:20,25
246:9,15	theres 6:3 11:7	225:6,15 283:5	211:16 225:6	185:17,25
248:12,25	15:6 30:4,17,18	292:11 327:15	226:11 234:7	186:18,21
250:3,8,12,13	48:17 49:6	340:12	234:11 244:15	187:5,5,11,18
250:16 251:8	50:17 52:23	things 9:7,23	255:7,17,17	187:21,23,24
251:13,15	58:2 64:19	11:11 15:24	275:5,10 277:1	200:21 201:1
252:1 255:3,7,8	66:20 67:2	16:6,16 28:9	277:22 278:25	201:10,22,23
255:17 256:2	69:15 72:6,10	43:15,18 92:6	287:6,11	203:3,8,12,17
256:16 263:6,8	73:14 76:3 78:8	102:25 103:10	291:11 299:20	204:6,10 206:2
269:12 271:15	94:6 105:23	160:18 163:14	301:16 302:20	206:5,14,20,23
272:4 275:15	110:1 114:2,7	172:8 178:1	304:25 309:20	250:3,16,20
276:7,14	119:3 123:1	180:4 223:6	311:17 314:18	252:1 266:13
280:25 281:24	129:25 131:11	240:8 241:19	315:5 333:22	266:17 267:13
282:14,23	131:19 143:17	243:18,23	333:25 335:8	267:16,18
283:13 284:21	147:20 157:22	255:23 271:15	337:12,22	268:3,7,10,12
285:5,19	162:8 166:9,18	272:18 275:2	338:6,12,21	337:23 338:20
291:22 292:25	166:25 168:15	283:5 292:2	342:2 343:4	343:5
294:7 297:3,16	170:11,13	299:2 311:16	344:9 350:17	thorough 348:9
298:14,14,22	177:17 180:5	313:24 321:25	353:12 363:15	thought 20:1

MIDWEST LITIGATION SERVICES Phone: 1.800.280.3376

Case: 4:14-cv-02077-RWS Doc. #: 82-9 Filed: 09/30/15 Page: 145 of 155 PageID #: 1131

JONATHAN RODDEN, Ph.D. 8/20/2015

				419
57:17 66:24	346:4 355:17	344:4,24 345:6	todays 7:11,24	toppreferred
71:7 74:19	356:23 359:25	time 6:25,25 7:5	8:6	264:23
233:1,10	threecandidate	10:3,18 12:22	tomas 201:12	topranked 3:13
286:11 312:19	295:21 338:12	14:4 16:8 19:24	266:19	136:18 191:22
313:24 314:6	338:14	20:15 21:10	tony 4:11	191:24 207:25
314:20 319:24	threeperson	22:10 25:12,17	tool 61:3	218:11 259:21
323:6,11,12,17	339:21 340:5	40:5,16 46:24	tools 296:4	260:8,8 263:4
323:18 349:12	threeseat 129:16	48:4 54:4 71:3	top 10:1 96:14	263:19 264:18
three 8:3,8 11:16	130:22 132:3	75:25 79:14	133:16 135:6	265:8,13,14,19
11:18,21,24	135:16 136:12	80:1 85:17	135:10,13,23	266:1,2,8,14
85:8,21 100:22	148:5 174:3	86:11,13,16	136:2 162:25	270:18,23
102:11 103:6,7	184:5 185:9	108:20 114:1,1	162:25 165:21	271:1,13,18
109:5 110:11	191:12 196:23	115:4 118:23	175:16,17	272:2 295:9
129:17 135:16	196:24 254:13	123:22 126:14	180:11,11,16	359:20 360:1,5
136:11 139:13	254:19,20,24	128:25,25	183:1,7,8 184:3	360:11,11
140:5 142:22	255:21 356:24	129:20 132:12	184:4 185:8,10	361:13,19
143:6 144:1	threeyear 60:21	132:12 166:1	187:1,1 188:21	toptwo 289:18
146:3,5,12,17	60:24 103:2,9	170:22 176:22	190:10,12	291:7
146:21 148:5	103:20 104:9	220:24 229:6	191:3,10,12,22	total 53:15 55:11
151:7 152:7	105:6,8,14	239:15 252:16	191:25 192:3,7	56:1 110:9
154:3 160:4	107:21 111:3,6	256:8 259:6	192:25 193:5	111:1 130:11
177:3,5,6 184:5	112:17,25	282:7 283:6	193:23 194:13	137:4 147:20
185:10 191:12	113:1 306:6	286:5 293:16	194:13 195:14	147:23 155:11
191:18,19	352:11	293:19,23	195:15,22	311:19,20
195:12,22	threshold 120:11	307:14 314:21	199:1 202:23	345:12 346:15
199:12,25	threw 177:4	325:19,20	202:23,24	354:12 363:7
200:17 203:5,6	throw 152:15	334:10 336:10	203:19,24	totality 328:6
211:23 212:3,5	166:4,23	350:22 357:25	205:9 206:2	totally 289:19
212:8,9 213:17	176:14 178:20	358:4,6 359:4	209:22 210:20	totals 125:7
213:24 214:6	178:22 180:13	360:7,18	214:10 227:18	touch 328:15,19
215:18 218:9	180:23 294:24	361:16	234:18 235:15	town 7:20 87:23
220:17,25	throwing 164:18	times 79:18	250:4 260:18	88:4
233:25 235:6,9	165:23 180:17	85:21 136:10	260:19,22,24	traditionally
235:12,25,25	thumb 78:11,22	211:24 212:8,9	261:5,14,22	229:23 230:3
236:1,4 237:9	80:19 131:20	294:19 295:23	262:4,12,20	transcribed 5:5
238:9,19	198:4,24,24	360:22	263:13 264:19	transcribing 6:4
239:10,13	201:17 208:24	title 14:13 27:22	276:5,11,12	transcript 3:24
241:16 242:9	209:4 214:21	titled 238:6	295:19,20	365:14
250:12 254:16	216:25 217:2	321:15 322:5	307:13 324:2	transformation
254:23 255:22	227:10,11	today 6:17,23	336:16	28:25
256:2 270:22	228:20 231:1	19:1 22:15,20	topic 10:10,25	translate 11:14
290:23 295:21	235:3,24 244:8	40:19 89:22	11:3,3,15 13:6	transparency
336:10 338:7	344:22	134:20 296:13	15:8 35:17,24	241:18
338:20,21	ticked 242:20	301:13 308:24	240:9 316:22	treated 256:17
339:22 340:6	tie 343:24	320:4 336:9,22	topics 15:12 47:5	treats 254:7
340:21,24	tied 231:1 343:9	336:24	99:22	trend 102:8,21

MIDWEST LITIGATION SERVICES Phone: 1.800.280.3376

Case: 4:14-cv-02077-RWS Doc. #: 82-9 Filed: 09/30/15 Page: 146 of 155 PageID #: 1132

JONATHAN RODDEN, Ph.D. 8/20/2015

				420
				420
112:8 114:24	212:16 230:5	84:16,19,20	145:15,18,23	338:8,9,19
114:25 360:22	230:11 232:5	85:3,4,9,16,16	146:21,25	339:3,4,5,7,10
361:1,4	266:8 278:15	85:20,21 86:10	147:3,7,12	339:15,19
trends 113:21,24	281:15,18	86:10,16 87:1,2	148:4 151:7	340:1,1,3,3,6,7
114:11,15	325:15,15	87:10 88:5,7,15	152:7 162:22	340:19,22
118:23	335:5,11	88:17,21 89:2	163:6,19 164:4	341:2,8,13
trial 365:17	turn 31:15 34:11	89:18,25 90:3	167:11 175:15	342:25 344:24
tried 20:17 30:19	34:18 40:23	90:12,21 91:4	175:16 178:1	345:5 347:1
31:3 178:6	47:21 64:17	91:12,16,20	180:11 181:4,7	349:18 356:6
256:6 286:7	67:25 77:19	92:25 93:7	182:6 184:3	356:22 357:1
294:2 323:10	83:10 96:13	96:16 97:6,12	185:9 186:11	360:14
tries 73:19	109:17 239:22	97:13 98:1,18	187:15,21	twocandidate
triple 132:4	300:4 322:9	98:19,20,22,23	191:3,10,18,22	218:6 295:20
true 37:2 102:25	329:9,19	98:24 99:1,8,9	191:25 192:3,7	338:16
208:24 213:22	334:16	99:19,20	192:25 193:6	twoperson
223:6 253:7,9	turned 280:7	197:25 198:25	194:13,13,20	339:13,18,24
271:20 302:4	turning 252:15	242:19,19,24	195:4,4,19	339:25 340:2
352:25 353:5	252:17 293:13	243:2,17,19	199:1,18 200:1	twoseat 129:13
356:4 357:10	340:17	287:22 288:1,6	200:11,17	130:8 131:3,10
366:8,12	turnout 2:17,18	288:21 291:14	202:25 203:1,5	131:22 134:1
truth 283:4	35:4 47:23 48:1	323:7,18	204:12,21,22	135:14 136:11
truthfully 6:23	48:5,8,13,24	334:21 351:4,7	205:2,20 206:2	148:5 174:4,5
try 15:4 16:4,14	49:7,14,19,24	351:9,12,14,15	207:1,2 208:3	183:3 184:4
20:7 23:19,21	50:2,6,9,11,18	351:18	209:22 210:8	185:8 191:9,19
44:18 61:11	50:22 51:12,20	twice 217:23	210:20 212:9	194:25 196:22
73:19 88:11	52:1,1,4,24	two 48:19,20	213:17 214:1,6	209:22 218:6
120:24 132:10	53:3,10 54:9,12	49:4,21 50:10	214:8,10,25	220:25 226:2
133:12 163:9	54:13,20,21,24	57:13,22 65:12	215:5,10,10	356:23
167:17 178:17	55:2,3,4,7,9	66:4 78:9 82:17	217:12 218:24	twothirds 193:20
191:9 224:18	59:16,17 62:1	82:21 83:21	220:18 222:22	201:8 228:7
238:25 241:22	64:18 65:22,23	85:23 87:1 88:8	223:19 226:21	type 21:21 90:1,8
254:6 279:2	65:24 66:10,18	89:3,20 90:5,21	227:9 230:16	123:10 177:18
307:7 319:25	69:10,11,11	92:3 105:21	231:20 236:1	177:19 285:20
334:9	70:9,11 71:1,23	109:5 127:9	238:12 245:11	types 57:22
trying 12:11	72:17,20 73:8	129:14 132:17	247:1,17	163:7 177:21
14:22 16:22	73:11,13,16,20	133:16 134:6	248:24 249:12	178:1
20:11,19 33:16	73:24 74:1,3,18	135:14 136:2	250:8 252:12	typewriting 5:5
43:18,20 45:11	75:1,8,14,16,19	136:11 137:8	254:22 256:2	364:10
50:7 52:23 55:5	76:1,3,7,17	137:10,25	257:2 259:9	typically 17:14
56:9 59:8 62:2	77:25 78:5,6,8	138:1,6,17	271:13 284:8	17:17 76:21,25
75:18 94:20	79:5,20,23 80:3	139:6,24,25	290:22 295:19	77:15 98:8
104:17,20	80:5,10,11,14	140:8,20,23,25	298:20,23	116:17 232:11
109:20 126:10	80:14 81:1	141:10,17,22	309:21 310:6	351:14
126:11,11	82:11,15,18,22	141:24 142:7,9	310:24 312:2,5	typo 266:3
162:20 166:25 188:16 202:20	83:19,19,21	142:15 143:17	312:12 315:8,9 330:17 336:9	U
100.10 202.20	84:1,6,6,11,12	144:4,13	330.17 330.9	<u>u 44:11</u>
				4 1 1.11

MIDWEST LITIGATION SERVICES Phone: 1.800.280.3376

				421
uhhuh 33:7 46:8	understand 6:17	350:9,23	unprecedented	191:8 201:21
59:25 62:8	7:3 12:11,23	understood 7:4	242:12	220:18,23
63:11 64:15	14:22 16:15,23	undertaking	unsettled 22:17	240:9 244:21
78:13,17 83:14	20:7,17,20 24:5	32:6 278:3	22:19	254:13,21
92:15 98:16	33:9 34:8,10	undertook	unsuccessful	260:16 286:10
105:3 109:6	43:19,20 44:19	275:24	271:2,19	
			354:21 355:7	296:2 316:3 325:22 331:23
131:13 138:4	44:20 45:11,24	undeveloped		
144:19 152:20	50:1 54:19 55:3	41:8	355:22	344:21 346:7
157:13 173:24	55:6 56:13 61:2	undoubtedly	unusual 95:1	355:15 361:15
174:1,10	61:13,15 65:15	31:19	172:19,20,24	361:22
181:19 187:19	82:9 86:20 90:2	unemployment	182:5,10	useful 70:25
191:20 203:9	94:20 104:17	301:10	243:25 274:1	71:14 75:12
205:22 220:5	104:24 109:19	unfortunately	313:4	118:17,21,24
226:10 229:10	120:14,25	232:22 246:21	unusually 91:4	123:11 163:2
230:14,16	125:5 126:10	298:9 320:16	91:13 236:18	163:20 234:7
232:10,10	129:4 131:9	325:24	243:13	256:9 278:3
249:23 259:18	152:4 160:15	unintentional	upcoming 14:5	281:10 282:8
288:11 290:15	165:17 178:2	2:12 27:24	updated 320:12	286:12 297:18
291:5 295:16	180:4,5 185:4	union 1:16 4:4,8	upfront 279:2	300:1 340:12
304:12,17	191:12,15	36:4,8,13	upper 157:5,10	uses 58:23
314:23	192:15 198:12	291:24 292:4,9	159:18 187:20	117:18 130:18
ultimate 24:10	202:20 203:11	292:16 293:2,6	196:17 198:18	130:20,23
24:19 51:2,6	209:10 222:13	315:2	198:21 206:15	131:11 181:21
ultimately 25:1	222:19 224:19	unionized 35:3	207:19 214:16	usually 170:19
26:16 41:6	224:22 230:11	35:14,22	227:19	177:10
unachievable	263:8 277:15	unions 36:1,14	upwards 114:3	utilize 50:23
57:4	286:6,15 291:2	292:13,22	urban 13:4,5,15	
unappealing	296:15 309:18	293:10 314:25	urged 240:9	V
327:15	309:20 311:4	united 1:1,21	use 15:5 24:7	v 3:18 321:8,17
unclear 19:9	311:19 318:5	10:8 13:4,21	31:9 32:24	valid 37:1 176:16
198:10	318:16 321:14	15:10 22:2 37:3	33:14,14,18	value 77:11
uncontested 73:1	325:15 332:7	44:15 45:17	52:17 56:8,8,10	161:13,14
151:11 212:17	334:19,23	61:5 273:22	57:8 59:2,11	210:15 253:16
212:24 213:4	understanding	274:3 288:3	60:19,20,20,21	254:6 258:9,13
214:1 230:9	9:20 22:18	297:10 314:15	74:2 75:13	352:25 353:5
252:19,25	23:25 24:2	universal 121:3	102:6,20	values 81:21
253:2 257:22	28:16 29:15	universities	104:11 112:24	156:25
294:16	39:5 45:7,7,9	324:17 326:10	116:17 131:3,4	van 141:1 204:15
under18 312:22	92:22 133:12	332:15	133:3,4,6	204:18 205:6
underlying 2:22	178:4 277:11	university	136:15,16,16	205:14 250:17
10:2 51:1,5,8	281:7 286:8,13	326:10 332:22	136:17 137:2	267:20,24
127:15	293:16 294:10	universitys	157:21 170:17	268:1
undermine 51:2	321:23 322:4	328:22	170:22 171:7	vap 62:10,10
51:6,10	326:17,19	unknown 37:5	170.22 171.7	64:1 346:11,12
underneath	327:8,11,12	unpack 309:17	182:12 183:1,6	346:12 347:8
167:23	333:13 335:25	311:18	183:19,24	347:11
107.23	333.13 333.23	311.10	103.17,24	variables 33:18
				, and a second

Case: 4:14-cv-02077-RWS Doc. #: 82-9 Filed: 09/30/15 Page: 148 of 155 PageID #: 1134

JONATHAN RODDEN, Ph.D. 8/20/2015

422

Fax: 314.644.1334

				422
61:8	115:10	273:13 318:14	201:9,14	votes 29:1,3
variation 125:8	virtue 282:3	318:17 320:7	203:19 204:16	59:17,20,21
299:15	visual 52:16,19	323:7 324:10	204:16,23	69:12 70:12
varies 48:11	78:11,12 112:7	voters 26:18	205:9,11,13	73:15,16
232:18	112:21	27:12 28:17,17	206:2,19 207:8	121:18,19,24
various 9:22 46:6	visually 52:14	53:4,12,16,18	210:21 211:10	122:1,10,14,21
67:23 237:25	53:23 112:7	54:14,23 55:5	214:15 215:15	122:25 124:8
253:25 256:7	115:2 119:17	59:17,18 62:2	216:18 217:19	124:15 129:14
300:17 350:2	127:19 327:15	63:12,17,21,23	218:11 219:5	129:17,21
vast 111:20	340:12	64:13,14,17,19	219:11,14,18	130:1,5,9,9,11
299:21	vitae 2:10	64:25,25 65:11	221:6,14,17	130:16,17,19
vastly 66:14	voluntarily 45:25	65:12,14,25	222:22 223:2,4	130:21,23,23
verb 240:10	vote 11:9 60:12	66:1,1,3,5,11	224:3,6,11,15	130:24 131:4,5
verbally 6:12	63:10,16 119:6	66:14,14,20,21	225:3,17 226:7	131:11,15,21
188:4	119:22 120:7,9	69:12 70:12,13	227:1,5,17,18	132:4 158:9
version 90:15	122:6 123:17	70:14 71:7	227:21 228:8	159:10 163:5
126:13 327:6	125:1,7 126:7	85:25 91:24	228:12,17,21	166:14 167:8
327:19	129:19 131:6	93:11,18 94:10	230:3,25	168:21 173:16
versus 11:10	132:4 158:5	94:12 126:8,8	231:13,23	174:8,11,20,24
216:22 240:9	166:4 171:6,7	129:19 130:2	232:11 233:2,7	176:7 177:18
284:19	175:17 176:13	130:14 131:4,6	234:19,25	177:20 182:20
vertical 10:19	177:1,23 181:9	131:15,23	235:15 243:8	183:4,5,8
vet 324:18	181:13,16,17	132:6,6 135:24	243:14 245:24	188:23 189:4
vexing 277:18	181:21,21,21	146:14 148:21	246:3 256:19	193:25 197:5
victorious 296:5	182:2,3 187:18	158:3,5,10	258:24 259:21	197:11,15
338:11 345:1,7	221:21 222:1	159:19,20,25	260:8,9 264:11	200:21 203:20
victory 253:21	230:13 273:1,2	160:17 164:11	264:18 265:8	204:18,19
view 21:11 30:3	273:8,17,19	164:25 165:19	265:14,20,23	205:15 206:5,7
41:19 86:17	290:13	168:9,19	265:25 266:9	207:13 216:19
118:9 171:13	voted 97:16	169:23 170:5	266:14,22	217:16,24
211:12 236:25	131:16 159:25	174:16,23	267:5,13,21	218:2 219:10
237:5 272:24	160:1 182:8	175:9,22 176:2	268:4,15,23	221:22,25
281:1,16 294:6	223:4 224:16	176:21 177:19	269:10 270:2	224:7,12 225:4
319:10	225:17 240:11	177:20 181:9	270:11,18	225:23 226:3
viewed 126:25	votegetter 135:6	181:12,15,23	271:18 273:7	226:13,15
127:1 294:4	183:2,7 185:18	182:20 185:11	273:17,18	228:25 235:21
326:4	votegetters 184:4	186:12,25	274:9,9 276:20	243:22 246:8
views 93:20	184:5 185:9,10	187:2 188:22	278:1,3 282:21	247:17 266:22
violated 329:22	234:18 235:16	191:4,11 192:3	283:11 284:16	267:4 269:10
330:6,11	voter 3:18 68:14	192:7 193:1,21	295:10 318:14	269:18 270:1
violation 322:6	129:14,16	193:23,24	319:2,11,13,21	270:11 271:20
327:22 330:20	130:8 131:11	194:3,13,13	322:13,19,25	271:21 280:13
331:22 332:3	132:25 149:18	195:15,16	323:16 324:17	358:10,10
violations 331:2	150:1 181:18	196:9 197:2,10	332:11 333:7	voting 2:15 3:16
violence 41:5 42:24 43:3	181:20 182:1,8	197:21 198:17	333:12 360:6	9:21 11:8,12,14
42:24 43:3	187:1 195:14	199:2,7,24	360:20	11:19,25 12:21
				1

JONATHAN RODDEN, Ph.D. 8/20/2015

423

Fax: 314.644.1334

18:7,18,21,25 178:2,3,8 179:8 47:	1,2 54:19 342:15 344:8	255:23 271:21
	15 60:14,21 347:24,25	277:19,20,22
	20 65:15 349:17 351:22	279:14 281:7
'	19,25 81:10 wanted 28:21	285:19 291:11
'	5 92:3 102:9 29:10,15,18,22	313:12 314:22
' '	:2 105:16 34:8 59:10	315:21 319:19
, and the second	:25 110:3 60:10,11 75:10	326:4 335:25
	:22 118:14 82:4 86:6	337:5 338:1
	:18 120:17 104:11 198:13	346:22 350:8
' ' '	:18 121:3,9 257:16 279:11	350:17 351:6
,	:5 126:5 279:11 318:12	353:22 361:2
,	:9 132:10 318:16 340:9	ways 23:8 71:5,8
	:12 134:12 346:5	93:19 127:2,4
1 1	:19 136:14 washington 2:13	134:6 211:17
, , ,	17:18,22,22 washington 2:13 17:18,20 34:15	224:2 254:3
	17.16,22,22 17.16,20 34.13 12.2 141:5 34:20,24	344:3
	.6 143:19	website 67:24
	:25 152:4 206:15,20,23	68:7
	:15,19 250:13,20,23 250:20 296:12	weird 74:20
	:1 157:25 wasnt 32:12 34:7	welcome 153:23
	:24 160:3 Washt 32.12 34.7 45:24 64:9 70:2	welldone 36:25
, , , , , , , , , , , , , , , , , , ,	1.24 100.5 43.24 04.9 70.2 115 162:11 71:9 151:22	
		wellmeaning 44:25
	:15,23	· -
,		wellorganized 35:2
, , , , , , , , , , , , , , , , , , ,	:20 179:2 281:18 308:19 :19,24 watch 259:6	wellrehearsed
	:6,11,19 watch 239.6 way 11:13 13:22	41:1
	:15 200:5 way 11.13 13.22 29:19 30:11	went 88:18,20
	29.19 30.11 36:7 45:12 55:3	122:25 149:4
	1.4 223.19 30.7 43.12 33.3 30.2 229:3 55:7 61:25	193:13 273:4
	1.2 229.5 33.7 61.23 1.1 236:7,9 64:18 65:23	332:14 351:24
'	1:21 250:7,9 04.18 03.23 1:21 250:1 66:10.17 69:11	352:14 351:24 352:8 353:24
, ,	,	weve 8:11 16:7
, , ,	, ,	16:10 27:22
7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	:14,15,17 84:10 88:13,25 :8 271:3 90:22 92:7	
117.7,13,21	:8 271:3 90:22 92:7 :6 282:9 93:15 94:8	46:25 79:17 131:2 138:2
120.1,0,12,17	1.8 291:1 95:13 94:8 1.8 291:1 106:22 115:19	169:1 187:23
120113,22		
12111, 1,0,12,12	:17 298:12 117:9 118:9 :19 301:12 120:12 133:5	190:2 192:12 192:14 196:5
12111, 12210,0	:14 302:10 138:2 153:19	219:21 228:18
122.10 12	:19 307:25 172:18,25	232:14 246:6,8
131.12,13,21	172:18,25 110 309:17	246:9 247:14
	173.3 180.13 180:19,21	253:24 257:2
130.3 101.20	180:19,21 19 323:13 211:8 223:23	259:8 271:11
	:22,23 223:24 226:2	334:10 336:8
172.3,5,12,13	223:24 226:2 3:25 337:2 226:14 246:13	
30:23 34:18	220.14 240:13	338:2,3,3,9
30.23 34.10	1	

Case: 4:14-cv-02077-RWS Doc. #: 82-9 Filed: 09/30/15 Page: 150 of 155 PageID #: 1136

JONATHAN RODDEN, Ph.D. 8/20/2015

424

Fax: 314.644.1334

				424
whatevers	126:6,8 128:14	268:18 272:4	69:10,14,18,22	wins 135:22
260:17	137:4 138:7	273:2,18,19,23	70:7,10,22	176:17 213:9
whats 12:5 47:10	139:7 140:1,17	276:13 278:1	73:16 79:5,21	222:11,13,20
49:10 56:10,12	141:11,25	280:13.21	86:17,22 87:10	224:23 225:1
81:21,24 82:9	142:16 143:11	292:12,20	92:18 98:23	282:7
88:2 107:16	143:23 144:5,9	295:10 297:20	101:8 115:1,4	wisdom 319:24
109:23 110:8	144:11 145:4	298:17 300:8	120:2,3,7 121:8	wish 37:11
110:18 112:4	145:19 146:18	302:21,22	123:8 126:17	withdraw 28:5
126:5 128:3,17	147:13 148:4	303:14 309:21	126:18,23,24	witness 1:13 5:6
149:18 157:22	148:16 155:2	310:19 314:12	127:7 133:24	22:13 23:25
239:19 260:3	156:3,13	346:11 362:4	136:19 170:11	24:3 47:4,9
272:12 304:11	157:11 160:10	whiteasian 315:2	187:25 194:8	108:5 137:15
316:16 325:6	168:9,12,16,19	whitepreferred	195:20 204:4	138:12,24
329:10 349:3	168:21,25	145:23 146:21	207:16 247:17	139:5,11 169:5
358:13	169:7,12,14,18	150:6,7,11,16	264:2 266:2	194:17 199:5
whatsoever	169:23 170:5	150:0,7,11,10	273:2,25	205:1 218:22
293:9	186:25 187:2,5	154:19 156:4,7	275:20 276:2	364:7,9 365:14
white 2:20 37:13	187:6,11,20	163:12 168:7	295:19,21	367:1,3,25
38:9 40:3,17,20	193:23,24,25	169:2 170:14	296:2 298:4,8	witnesses 7:15
45:5 48:8 49:14	194:3,13 195:9	187:15 188:8	299:11 300:17	19:20,21
54:8 61:17	195:14,15,16	195:5,25 196:5	300:22 301:1,5	won 136:7,10
62:13,18 63:4,9	199:24 200:7	196:6 204:8	301:10 302:25	150:8 213:6
63:12 64:13,17	203:19,20,24	205:20 208:3	361:24	221:7 222:2
64:24 65:11,14	204:5,10 205:9	215:6 216:6,11	whittier 1:17 4:9	223:1,3 255:3
66:1,3,5,13,20	204.3,10 203.7	218:21,24	whos 6:4 110:20	257:4,14 287:3
69:1 70:13 75:8	205:24 207:8	227:8,9 235:25	163:11,11,12	293:15,23
76:3 77:25	207:13,19,20	236:1,4 245:22	163:12 167:1,1	334:20,23
79:23 80:3,10	207:25 208:17	246:19 247:5,8	175:24 182:13	337:1 338:5
80:14 81:1	215:21 216:1	247:12,20	354:25 355:6	339:8 343:13
82:15,22 83:18	218:11,16	248:14 249:2	355:16,21	343:18,18,25
84:6,11,16,20	219:3 221:22	251:23 252:12	356:7,21 357:3	344:12,25
85:3,16,20	223:3,9 225:17	260:19,22,24	359:15 361:12	357:14 358:9
86:10 87:1,16	226:25 227:5	261:6,14,22	widely 12:18	wonder 337:11
87:22 89:2,18	227:14 232:4,7	262:4,12,20	widespread 91:5	word 102:7
90:3,20 91:20	232:9,10,16,21	263:13 264:20	william 100:2	240:10 246:23
91:23 92:25	233:3,6 235:15	265:7,14	willing 19:16	words 40:7
93:11,18,22	235:21 236:5	295:17 354:5	178:5,5	311:12
94:5,10 105:20	240:9 241:24	357:7 359:7	willis 1:5	work 10:25 11:3
107:23 108:11	245:11,23	361:9,13,19	win 134:23	11:7 14:15
109:12,22	246:2,4 260:8	whites 41:2,6,7	150:17 221:1	15:23 17:22
110:12 114:22	261:1,9,17,24	45:2 48:14,24	257:22 335:12	22:13 25:13
115:13 120:9	262:7,15,22	50:9,19 59:21	winner 338:4,5	26:9,13 37:6
122:1,21,25	263:5,15,19,22	60:13 62:6,10	winners 337:11	55:22 94:18
123:16 124:9	264:5,10,13,18	64:6,12,19	337:12,17	108:22 320:17
124:12,15,17	264:23,24	65:16,17 67:3	343:14	345:10
124:25 126:2,6	265:8,19,20,23	67:10,14 69:6	winning 221:23	workers 35:4
, , ,	, - , - , .	,	6	
		I	l	l

				425
working 10:8,18	129:12 143:13	110:22 112:14	345:17,17,23	190:14 203:7
14:3 17:7 20:22	151:2 178:5	110.22 112.14	346:1,4 354:24	211:15 212:10
27:16 29:12	245:14 249:19	112.13,23	355:5,10,15,23	213:3 225:5
93:23 94:7	283:15 294:23	118:15 121:16	355:25 356:2,3	226:12 229:7
277:22			,	
	337:23 338:18	139:13,20	357:17,21,24	231:6 232:6
worksheet 244:3	345:3	144:25 147:1	358:3,6,16,21	237:5 254:5
world 10:23 56:7	wrote 35:6 37:17	151:20 268:7	358:24,25	255:9,23
94:24 342:7	40:4,16 41:11	269:1 271:7	359:4,5,24	260:21 272:23
worry 183:22	85:19 188:17	283:21 300:9	360:7,10,18	281:14 284:23
worse 39:1	234:2 236:20	302:7,12,14,16	361:7,16,17	290:12,23
232:11	244:13 252:21	302:17,24	yesterday 7:20	291:2 293:22
worth 151:1	256:5 275:22	303:8,8 304:23	7:21 8:4,8	301:18,21
249:14	296:8	335:9 337:1	307:11 308:18	303:7 324:1
wouldnt 66:11		340:25 342:15	308:19 336:21	325:2 326:23
79:17 116:5	X	345:3,9 352:4	york 4:5,5	340:14 349:19
118:5 176:3,20	Y	years 3:21 16:10	younger 314:5	youve 5:23 8:16
176:23,23		17:7 48:19,20	youre 6:17 9:8	9:1 61:19 64:18
187:21 202:5	yeah 48:16 60:9	56:9 59:9 72:19	33:21,22,23	68:11,14 71:17
254:1 277:9	61:24 62:14,22	73:2,4,7,8,11	47:25 52:22	85:4 90:22
363:6	66:6 80:18	73:21 74:8	54:18 55:2,7	100:5,6 116:25
write 24:6 31:17	88:11 98:24	79:24 80:4,6	56:11,13,13	117:10,12,15
38:17,20 40:24	99:3 104:16,19	83:21 84:19	58:13 71:19	153:3 159:3
67:6 77:22	104:19 108:21	86:9,24 87:6	79:6,11,13	163:13 169:13
83:18 91:3	108:24 131:10	89:3,20 90:5,21	91:24 93:11	170:15 178:10
108:3 137:25	140:7 144:12	96:8 97:8	95:15 96:25	179:17 181:5
160:5 164:14	152:5 189:13	102:15 103:2,6	97:5,21 102:15	274:4,7
164:17,18,23	198:5,21 203:2	103:7 104:12	102:16 105:5	
167:19,23	203:4,10	105:4 106:21	106:11 107:1,7	Z
184:25 225:21	209:12,12	114:9 117:19	107:20 108:6	zero 73:15,16
225:21 229:3	223:5 233:13	117:19 119:9	112:17 113:23	143:6 195:5
233:24 252:18	246:25 248:2,2	129:9 151:1,7	114:8 119:9	196:7,7 200:12
253:8 256:8	250:2 253:23	151:11,16,17	123:20,21	200:12 252:3,3
275:17 333:6	254:21 255:21	152:6 153:16	124:10 126:7	252:4,4,5,5,6,6
340:15 344:25	289:21 290:9	154:5,6,12	127:18 129:6	252:7,7 289:10
writing 16:17	291:11 298:15	155:2,10,12,24	130:12 133:5	290:12 297:24
75:17 86:1	302:7,12 339:9	155:25 156:4,5	133:15 134:24	298:1 311:22
340:19,20,21	343:22 346:20	156:8,15	135:6,12 136:8	338:7,9 339:9,9
written 34:15	347:15 349:17	211:10 229:25	143:19 144:8	339:14,15,16
35:17 36:21	363:6	230:5 248:4,19	153:23 154:2	339:16,22,22
185:1 240:13	year 17:5,10	249:3,14	156:14 160:15	339:25 340:3
246:22 321:11	20:23 21:6 60:7	252:13 257:22	160:16,19,19	340:20,23,23
328:8	73:25 84:25	265:2,6 270:22	162:16 163:8	340:23,23,23
wrong 21:6 49:4	103:13,19	270:25 271:4	172:11 173:22	340:23 341:6,6
62:16 72:25	104:1,22	271:13,17	178:7 179:22	341:7,7 345:8
76:14 105:17	105:14,16,17	335:23 337:20	180:17 182:4	zink 1:18 4:22
119:2 122:20	106:11,15,24	342:10 345:17	188:12 190:7	5:4 364:3
117.2 122.20	107:19 108:22	J⊤2.10 J † J.1/	100.12 170.7	365:20
	l			200.20

				426
zoning 41:5	284:4 295:24	264:22 270:19	341:22	109:24 110:2
42:11,14,19	345:17,23	272:2,3 280:10	140 353:13	110:12,12,12
296:2	354:24 355:5	280:12 283:14	142077 1:7	110:15,18
	355:10 356:2	284:5,19	143 341:6,6,7,7	302:21 303:3
0	357:17,21,24	291:23 295:12	341:10	303:13,25
00 259:11 307:23	358:3,6,25	298:16 334:5	15 2:14 3:7,7,7	310:12
000 60:23 61:1	359:4,24 360:6	337:16 341:23	49:12 54:7	18th 4:4
300:9 322:18	361:16	357:8 358:13	72:16 84:19	19 3:15 232:7
333:12,18	100 14:11 62:5,6	358:19 359:21	86:9 152:5	235:17 244:25
347:2	63:9,12 64:13	125 4:4 271:20	154:3,5,12,18	245:2,7,9,11
004477 4:22	65:13,14,16,17	271:20	154:19 174:12	247:3,12 272:9
365:21	65:17 131:6,15	127 2:22,22	193:16 238:15	272:10,13
009 111:4 347:1	282:7 322:18	13 3:5 48:18	238:16 249:14	192 347:7,11,15
05 307:23	353:12	49:10 52:8 79:9	322:21	347:17
084004477	10004 4:5	79:20 106:7,20	15year 153:24	1970s 37:14
364:21	102 322:12	123:25 148:23	16 3:9 77:19	1980s 38:25 39:7
	324:16	148:24 149:10	83:10 85:8 91:3	39:14
1	107 2:21	163:25 164:1,2	151:3,6,15	1990 2:19 44:17
1 2:10 3:11 5:7	11 2:22 83:8,9	183:20 184:21	152:21,23	100:19
8:12 40:23 68:3	106:7 127:10	208:20 209:7	153:7 154:7,19	1999 8:23
68:23 102:24	127:12 128:18	209:14 214:22	174:24 189:6	19th 41:2
102:25 128:1	136:17 156:6,7	230:8,10 244:4	207:16 238:15	
168:24 193:24	157:4 173:13	248:16 251:8	238:16 251:13	2
197:4,10	202:5 205:14	252:20,23	252:13,20,23	2 2:11 3:23 19:10
203:20 205:10	250:25 260:17	258:4,7 279:5	300:4 341:18	27:22 69:2
206:6 218:13	275:16 276:15	305:7 342:14	357:23	170:25 171:1
230:8,9,9	287:21 297:19	342:17 344:17	164 3:5	194:4 201:5
235:17 280:6	336:24 342:14	344:19 345:20	17 3:11 96:13	206:5 234:19
281:19,20	11th 4:23	345:25 353:24	238:15,17	298:16 329:11
282:22 297:19	12 2:23 3:7,9	353:25 354:2	239:20 249:19	335:15,16
308:11 309:5	47:21,22 53:9	355:1 357:25	251:15,19	341:18 347:2
315:8,10	79:20 83:25	130 4:15 365:6	293:14 300:16	349:1,4,18,20
316:17 334:12	84:5,19 86:8,8	1337124 330:23	18 2:14 3:13	350:20
335:15 341:23	128:1 136:23	331:1	117:22 174:8	20 3:16 60:23
10 2:22 100:2,9	136:24 147:21	136 2:23	187:18,21	61:1 119:1
100:17 117:19	147:24 148:2	14 3:6,7,9,11	247:6 259:12	121:23 123:13
117:19 127:10	155:14,20	48:18 79:10,20	260:4 265:23	127:21 213:6,9
127:11,13,14	156:4,7 163:24	134:23 135:3	271:24 276:9	230:13 232:15
128:3 150:25	164:1 197:14	136:6,10 149:1	295:7 311:9	257:4,14
151:7,10	197:14 209:19	149:7,11	312:15,17	287:11,12
153:15 154:3,5	211:21,22	159:10 187:21	313:10,11	295:25 345:13
155:1,25	248:8,9,18	237:21,22	329:9 337:13	354:13,17
181:23 182:1	249:12 251:5	257:23 258:4	356:17 359:12	365:12 366:23
217:18 230:9	253:9,12,15	279:5 280:6	363:14	367:4
248:3,4 265:1	255:2,9,14,14	300:9 341:21	18plus 108:15	2000 44:16 49:15
270:22,25	264:19,19,22	341:21,21,21	109:12,13,14	56:8 84:2,11,19
271:4 283:16		- , ,,	, , , , , , , , , , , , , , , , , , , ,	98:22 101:16
	<u> </u>	<u> </u>	<u> </u>	<u> </u>

Case: 4:14-cv-02077-RWS Doc. #: 82-9 Filed: 09/30/15 Page: 153 of 155 PageID #: 1139

JONATHAN RODDEN, Ph.D. 8/20/2015

				427
	Ī	Ī	l	
102:18,20	195:11,11	215:3 245:10	246:21,25	243:3,10,15,24
103:1,12,13,19	196:6,8 199:25	245:14 252:5	252:6 263:12	252:7 264:1
104:25 105:13	200:8 261:13	262:19,22	269:9 284:2	269:25 284:2
105:22 106:3	267:4 338:10	263:2 268:14	301:22,25	302:5,7,11,12
108:22 126:3	338:11,13,14	272:4 339:16	302:17,24	329:13 340:4
132:12,13,24	338:19,23,23	339:18	303:8 304:13	341:1
133:6 136:8	2003 83:20 140:9	2010 2:19 59:11	304:15,20,23	2015 1:15 47:15
137:7,8 147:21	199:25 200:1,4	60:4,8 100:19	305:3,7,12	59:9 79:12
148:22 149:13	200:14,17	101:3,8 104:13	306:6 307:2	83:20 84:2 87:2
149:21 150:2,9	261:21 267:12	114:3 212:19	315:23 339:23	87:11 90:13,20
172:9 173:2,4,7	338:20 339:1,3	213:11 214:2	346:11,13	96:19 97:21
173:13,18,19	339:4 340:22	230:7 253:2	351:23 352:3,5	98:2,5,11 99:4
175:13 185:17	2004 140:23	283:21,24	352:13 362:9	99:5,8,16
185:21,22	141:10 204:12	2011 53:21 79:12	2013 2:11 21:2	101:16 119:10
186:23 188:8	209:25 210:4	83:20 87:2,11	28:2 80:2 102:6	119:21 121:16
188:12 213:1,3	211:24 230:7	90:13,20 91:4	104:3 106:11	122:19 123:21
244:24 246:20	230:15 231:15	91:13,17,20	107:4,4,5,8,21	124:10,16
249:15 257:4	231:17,22	92:21 93:6,12	112:16,18	136:8 146:25
257:14,23	252:4 262:3,9	104:3 106:20	113:2,16	147:21 149:13
260:23,23	267:20 338:21	107:21 112:15	114:14 122:3	149:21 150:3,9
264:19,20	339:7,8	112:18 113:1	124:21 145:10	151:4 158:1,2
265:16 266:13	2005 72:20 114:5	142:22 143:10	145:12 208:25	161:19 162:2
270:19 271:7	339:11	155:11 173:17	209:11 210:14	162:21 164:4,8
272:3 276:3	2006 83:20	215:17 216:12	211:4,10,12,24	167:22 168:4
285:14 335:14	141:16,24	216:16,23	212:3,22 220:8	171:3 172:10
335:23 336:5	151:3,4,20,22	252:6 263:4	226:19 227:9	173:5 247:17
336:22,25	151:25 153:4	268:22 274:9	228:21 229:9	252:8 257:24
337:7,10,15,22	154:16 206:1	304:20 339:20	230:7 243:4,20	264:9 270:9
337:24 338:16	206:21 207:2,8	352:12	252:7 263:19	272:16 274:10
338:19,22	248:5 252:5	20112013 103:24	269:17 301:25	287:15 302:13
354:15 357:15	262:11 265:2	2012 21:2 48:18	302:4 304:21	302:14 308:6
358:6	268:3 271:8,9	54:2 61:15 79:9	311:9 315:22	335:23 340:7
20002015 2:17	339:12	80:2 85:17	316:12 340:1	341:2 357:15
2:23 3:5	2007 8:17 208:7	104:1,5,7 105:4	342:16,20,21	358:7 365:4,12
2001 83:20	208:15 209:14	106:5,6,10,18	344:12 345:2,9	366:16,22,23
103:19 104:6	210:18,23	106:22 107:3,6	352:12	367:4
105:4 138:16	211:1,4,8,10,19	107:19 110:23	2014 2:14,17	20th 1:14
139:7 188:11	212:10 213:11	111:2,7 112:12	3:17 61:3 68:22	21 3:17 53:9
188:20,22	214:2 230:7	112:13,20,21	69:6 80:2,9,25	119:25 202:4
189:15 190:18	253:2 285:14	112:22,23	96:17,25 97:7,9	234:20,20
192:3,22 210:6	2008 105:16,23	113:7,8,13,15	97:19 98:13	316:25 317:1,2
210:9 211:24	283:19,20,20	114:6 119:9,20	99:16 124:1,4	322:18 329:19
230:7,13,19,21	284:21,25	122:8 123:25	146:2 233:25	212 4:6
261:5 266:21	285:6,9	124:11 144:4	234:4,12,15,19	22 3:18 169:8
338:3,5	2009 83:20 91:18	218:5 220:1	239:21 240:14	195:15 216:18
2002 139:12	142:7 214:5,6,8	224:17 225:20	240:16 242:16	235:16 236:9
	, ,,-			
	l	l	l	l

MIDWEST LITIGATION SERVICES Phone: 1.800.280.3376

320:25 321:1	3 2:13,19,21 3:7	100:10,17	242:7,9 305:13	138:25
23 3:11 83:8 86:3	3:9 34:12	101:13 230:9,9	333:12,18	68 132:14,23
107:25 125:6	101:14,14	234:20 241:13	359:21	133:15 137:19
187:20 215:21	103:1 107:16	259:10 308:10	504 347:2	173:7
302:25 309:22	130:25 204:19	40 150:21 168:24	505 347:3,5	681 310:7,19,23
237 3:6	205:10 219:6	188:23 297:25	51 219:6	001 310.7,17,23
238 3:7,9,11	235:16 300:16	298:1	52 203:20 257:23	7
24 108:8 150:10	301:16 309:5	400 347:2	54 200:21 213:7	7 2:18 81:14,15
150:11 189:4	329:20 330:4	41 218:13	229:13,15	81:25,25 82:7
234:19 275:17	340:21	42 125:6 334:4	257:5,15	99:15,15 119:2
	30 201:5,5 202:3	43 170:25	5492686 4:6	120:1,2 121:6,9
347:2,3,5,5	205:10 232:25	45 128:1	55 145:22 155:5	121:11 125:21
365:4	233:6 307:17	454 1:17 4:9	564 315:10	174:8 189:4
	30s 125:2	46 218:13	57 144:17,20	204:18 205:14
	31 196:9 197:1	47 2:14 158:14	220:7 225:19	228:3 230:9
	313 108:8 303:9	48 149:22 161:17	363:22	235:16 322:9
197:10,12	310:2 347:5	171:3 259:10	59 143:5,25	334:5 363:22
· · ·	314 4:11,17,24	49 111:4,8,17,22		70 293:15,23
232:24 233:6,6	365:2,2	158:9 159:13	6	294:12
,	317 3:17	183:4,10	6 2:17,18 3:7	711 4:23
	32 194:4 300:5	305:16 346:20	34:18,25 38:19	72 69:2 229:13
	321 3:18	347:1	49:12 54:7	252:18
	33 130:24,25	4b 2:15	59:23 71:4	7263040 4:17
83:16 86:4,5	132:13 137:19		72:15 81:11,12	73 134:21 135:8
158:14	138:25 155:21	5	81:14,21 82:7	135:18 212:23
27 2:11,14	248:12 341:1	5 2:4,14,15 19:8	101:13 111:8	257:1
134:23 135:3	341:15,15,16	19:24 21:19	111:17,22	740 107:25
	334 2:4	46:3 49:10 52:8	113:23 197:14	302:25 309:22
′	336 3:21	67:18,19 88:2	288:14 307:23	75 253:10
	34 2:13 173:15	99:11,12	307:23 334:4	780 322:12
160:3 207:13	174:1	153:14 154:7	346:20	324:16
	348 2:5	188:23 197:14	60 121:20 156:15	799 4:22 364:22
,	35 134:21 193:24	234:20 259:11	212:20	365:21
251:19 252:12	252:17 256:25	287:20 324:13	602 4:15 365:6	7th 47:15
257:23 258:7	36 83:9	328:2 340:19	61 143:4	
357:25	37 153:14 154:7	341:3,4,15,15	63 141:21	8
272 3:15	213:1,2 245:8	341:15,16,16	63101 4:24 365:2	8 2:10,14,19,22
28 91:3 204:18	257:3,11	347:2	63105 4:15 365:7	2:23 3:5,14
	38 128:1 207:12	50 62:13,13,18	63108 4:10	99:23,24
341:22,22,22	228:3 342:21	62:18 63:4,4,15	632 315:11	125:25 126:7
286 341:8,9	342:21	63:16 64:13,24	64 141:5	127:16,19
'	39 1:15 5:10	65:18,22,25	6441334 365:2	128:4,10 129:2
29 229:4,15	119:25 205:10	101:4 102:1	6442191 4:24	135:21 136:16
2nd 272:16	236:10 238:7	111:10,25	365:2	136:17 156:21
287:15 308:6		130:10,17	6523114 4:11	174:24 229:25
-	4	131:5,14 171:1	66 140:6	230:1,2,10,11
3 2	4 2:14 5:7 47:11	183:3,8 233:24	67 2:15 68:3,23	232:2,22
		<u> </u>	I	1

Case: 4:14-cv-02077-RWS Doc. #: 82-9 Filed: 09/30/15 Page: 155 of 155 PageID #: 1141

JONATHAN RODDEN, Ph.D. 8/20/2015

		429
260:16 293:13 305:16 334:16 349:5,18,20 366:22,23 80 121:18,25 122:5,9,21 123:13 124:12 124:17 225:23 81 2:17,18 252:20 89 150:20 9 9 1:15 2:21 5:10 100:1 107:11 107:12 169:8 196:9 197:1 218:13 301:15 346:9 351:23 362:2 90 208:25 228:25 249:9 91 156:10 93 154:24 95 76:18,20 77:10,13 157:15,16 353:4 956 110:21 303:17 310:15 310:15,17 347:9 99 2:19		

MIDWEST LITIGATION SERVICES Phone: 1.800.280.3376